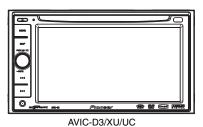
Pioneer sound.vision.soul





ORDER NO. CRT3879

DVD MULTIMEDIA AV NAVIGATION SERVER

AVIC-D3/XU/EW5

This service manual should be used together with the following manual(s):

Model No.	Order No.	Mech.Module	Remarks
CX-3212	CRT3896	MS5	DVD Mech. Module : Circuit Descriptions, Mech. Descriptions, Disassembly



PIONEER CORPORATION 4-1, Meguro 1-chome, Meguro-ku, Tokyo 153-8654, Japan PIONEER ELECTRONICS (USA) INC. P.O. Box 1760, Long Beach, CA 90801-1760, U.S.A. PIONEER EUROPE NV Haven 1087, Keetberglaan 1, 9120 Melsele, Belgium PIONEER ELECTRONICS ASIACENTRE PTE. LTD. 253 Alexandra Road, #04-01, Singapore 159936 © PIONEER CORPORATION 2007

SAFETY INFORMATION

CAUTION

Α

This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.

Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

WARNING

This product contains lead in solder and certain electrical parts contain chemicals which are known to the state of California to cause cancer, birth defects or other reproductive harm. Health & Safety Code Section 25249.6 - Proposition 65

This product contains mercury. Disposal of this material may be regulated due to environmental considerations. For disposal or recycling information, please contact your local authorities or the Electronics Industries Alliance: www.eiae.org.

- 1. Safety Precautions for those who Service this Unit.
- Follow the adjustment steps in the service manual when servicing this unit. When check ing or adjusting the emitting power of the laser diode exercise caution in order to get safe, reliable results.

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- 1. During repair or tests, minimum distance of 13cm from the focus lens must be kept.
- 2. During repair or tests, do not view laser beam for 10 seconds or longer.
- 2. The trianglar label is attached to the mechanism unit frame.

CAUTION

This product contains a laser diode of higher class than 1. To ensure continued safety, do not remove any covers or attempt to gain access to the inside of the product.

Refer all servicing to qualified personnel.

The following caution label appears on your unit.

On the top of the player.

CAUTION:	CLASS 3" VISI"LE AND INVISIBLE LASER PADIATION WHEN OPEN, AVOID EXPOSURE TO THE "EAM.
VORSICHT [.]	"EI GE®FFNETE" A"DECKUNG IST SICHT" ARE UND UNSICHTBARE LASERSTRAHLUNG DER KLASSE 3" IM GERATIENNEREN VO"HANDEN. AUGEN NICHT DEM LASERSTRAHLAUSSETZEN
ADVARSEL:	KLASSE 3* SYNLIG OG USYNLIG LASERSTR*LING VED **NING. UNDGA UDSÆTTELSE FOR ST**LING.
VARNING:	KL^SS 3" SYNLIG OCH OSYNLIG LASERSTR^LNING N^R DENNA DEL ^R OPPNAD. UNDVIK ATT UTS^TTA DIG F®R STR^LEN.
VAROI:	AV ⁴ TTAESSA OLET ALTTIN ⁴ NAKYVALLE JA NAKYMATT®M ⁴ LLE LUOKAN 3° L ⁴ SERS ⁴ TEILYLLE. ⁴ L ⁴ KATSO SATEESEEN.
ATTENTION	, radiations lase» visi"les et invisi"les de classe 3° quand Ouvert, evitez tout exposition au faisceau,
, <u></u>	CAN5448-A>

WARNING!

The AEL (accessible emission level)of the laser power output is less than CLASS 1 but the laser component is capable of emitting radiation exceeding the limit for

A specially instructed person should do servicing operation of the apparatus.

Laser diode characteristics

Wave length:

DVD:660 nm to 670 nm CD:780 nm to 800 nm

Maximum output:

DVD: 1.27 mW(Emitting period: 9 sec.) CD: 6.26 mW(Emitting period: unlimited)

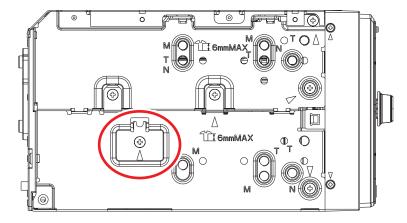
AVIC-D3/XU/UC

Transistors Q1103 and Q1104 in PCB drive the laser diodes for DVD and CD respectively. When Q1103 or Q1104 is shorted between their terminals, the laser diodes for DVD or CD will radiate beam. If the top cover is removed with no disc loaded while such short-circuit is continued, the naked eyes may be exposed to the laser beam.

Service Precautions

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- 1. You should conform to the regulations governing the product (safety, radio and noise, and other regulations), and should keep the safety during servicing by following the safety instructions described in this manual.
- 2. Be careful in handling ICs. Some ICs such as MOS type are so fragile that they can be damaged by electrostatic induction.
- 3. Because a part to show in figure below becomes hot, take care upon its operation.



DVD MECHANISM MODULE section precaution

- 1. Before disassembling the unit, be sure to turn off the power. Unplugging and plugging the connectors during power-on mode may damage the ICs inside the unit.
- 2. To protect the pickup unit from electrostatic discharge during servicing, take an appropriate treatment (shorting-solder) by referring to "the DISASSEMBLY".
- 3. After replacing the pickup unit, be sure to skew adjustment.
- 4. During disassembly, be sure to turn the power off since an internal IC might be destroyed when a connector is plugged or unplugged.













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AVIC-D3/XU/UC

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In this manual, procedures that must be performed during repairs are marked with the below symbol. Please be sure to confirm and follow these procedures.

1. Product safety



Please conform to product regulations (such as safety and radiation regulations), and maintain a safe servicing environment by following the safety instructions described in this manual.

① Use specified parts for repair.

Use genuine parts. Be sure to use important parts for safety.

2 Do not perform modifications without proper instructions.

Please follow the specified safety methods when modification(addition/change of parts) is required due to interferences such as radio/TV interference and foreign noise.

3 Make sure the soldering of repaired locations is properly performed.

When you solder while repairing, please be sure that there are no cold solder and other debris. Soldering should be finished with the proper quantity. (Refer to the example)

Make sure the screws are tightly fastened.

Please be sure that all screws are fastened, and that there are no loose screws.

5 Make sure each connectors are correctly inserted.

Please be sure that all connectors are inserted, and that there are no imperfect insertion.

6 Make sure the wiring cables are set to their original state.

Please replace the wiring and cables to the original state after repairs. In addition, be sure that there are no pinched wires, etc.

Make sure screws and soldering scraps do not remain inside the product.

Please check that neither solder debris nor screws remain inside the product.

® There should be no semi-broken wires, scratches, melting, etc. on the coating of the power cord.

Damaged power cords may lead to fire accidents, so please be sure that there are no damages. If you find a damaged power cord, please exchange it with a suitable one.

(9) There should be no spark traces or similar marks on the power plug.

When spark traces or similar marks are found on the power supply plug, please check the connection and advise on secure connections and suitable usage. Please exchange the power cord if necessary.

10 Safe environment should be secured during servicing.

When you perform repairs, please pay attention to static electricity, furniture, household articles, etc. in order to prevent injuries. Please pay attention to your surroundings and repair safely.

2. Adjustments



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To keep the original performance of the products, optimum adjustments and confirmation of characteristics within specification. Adjustments should be performed in accordance with the procedures/instructions described in this manual.

3. Lubricants, Glues, and Replacement parts



Use grease and adhesives that are equal to the specified substance. Make sure the proper amount is applied.

4. Cleaning



For parts that require cleaning, such as optical pickups, tape deck heads, lenses and mirrors used in projection monitors, proper cleaning should be performed to restore their performances.

5. Shipping mode and Shipping screws



To protect products from damages or failures during transit, the shipping mode should be set or the shipping screws should be installed before shipment. Please be sure to follow this method especially if it is specified in this manual.

AVIC-D3/XU/UC

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1. SPECIFICATIONS

● AVIC-D3/XU/UC

Α	General			
	Rated power source		Preout max output level/c	•
		(allowable voltage range:		'
	Crayondina	12.0 V to 14.4 V DC)	Equalizer (3-Band Parame	etric Equalizer):
	Grounding system		Low	40/00/400/400
	Max. current consur	•		40/80/100/160 Hz
			Q Factor	0.35/0.59/0.95/1.15 (+6 dB when boosted)
	Backup current	6.5 MA or less	Gain	· ·
	Display unit:	\(\frac{1}{2}\)	Mid	± 120D
	Dimensions (W X H	X D):		200/500/1 k/2 kHz
	_	178 × 100 × 165 mm		0.35/0.59/0.95/1.15 (+6 dB
В	Cilassis	(7 × 3-7/8 × 6-1/2 in.)	4 , 4, 4, 5, 5, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	when boosted)
_	Nose	170 × 97 × 8 mm	Gain	±12dB
		(6-3/4 × 3-7/8 × 3/8 in.)	High	
	Weight	2.2 kg(4.9 lbs)	Frequency	3.15 k/8 k/10 k/12.5 kHz
	Navigation	-	Q Factor	0.35/0.59/0.95/1.15 (+6 dB
	GPS Receiver:			when boosted)
	System	I.1. C/Acade GPS	Gain	±12dB
_	Gysterri	SPS (Standard Positioning	Loudness contour:	. 0 5 10 (100 11) . 0 10
		Service)	Low	+3.5 dB (100 Hz), +3 dB (10 kHz)
	Reception system	8-channel multi-channel	Mid	+10 dB (100 Hz), +6.5 dB
		reception system	IVIId	(10 kHz)
	Reception frequency		High	+11 dB (100 Hz), +11 dB
С	Sensitivity			(10 kHz)
	Position update freq	,		(volume: –30 dB)
		Approx. once per second	Tone controls:	
	GPS antenna:	National state of the transfer of the state	Bass	
	Antenna	Micro strip flat antenna/ right-handed helical polar-		40/63/100/160 Hz
		ization	Gain	±12dB
	Antenna cable		Treble	
	Dimensions (W X H			2.5 k/4 k/6.3 k/10 kHz
		33 × 14 × 36 mm	Gain	±12dB
		(1-1/4 × 1/2 × 1-3/8 in.)	HPF:	E0/00/10E LI=
	Weight	105 g(0.23 lbs)	Frequency Slope	
	Display		Subwoofer:	– 12 db/oct
D	Screen size/aspect ratio .	6.1 inch wide/17:9	Frequency	50/80/125 Hz
	2,000	(effective display area: 136 X	Slope	
		72 mm)	Gain	
		336 960 (480 × 234 × 3)	Phase	
	Type	TFT active matrix, transmis-	DVD Drive	
	Calamanatana	sive type		DVD-Video, Compact disc
	Color system Operating temperature ra		System	audio, MP3, WMA, AAC,
	Operating temperature ra			DivX system
	Storage temperature rang		Usable discs	DVD-Video, Compact disc,
	Storage temperature rang			MP3, WMA, AAC, DivX
		40 1 (0 + 165 1	Region number	1
Е	Audio		Signal format:	
		is 22 W per channel minimum	Sampling frequency	
	nto 4 ohms, both channe no more than 5% THD.	els driven 50 to 15 000 Hz with	Number of quantizat	
	Maximum power output.	50 W × 4		
	Maximum power output.	$50 \text{ W} \times 2 \text{ ch/4 } \Omega + 70 \text{ W} \times 1$	Frequency response	5 Hz to 44 000 Hz (with DVD, at sampling frequency
		ch/2 Ω (for subwoofer)		96 kHz)
	Load impedance	4Ω (4Ω to 8Ω [2Ω for 1 ch]	Signal-to-noise ratio	97 dB (1 kHz) (IHF-A net-
		allowable)	0	work)
				(CD: 96 dB (1 kHz) (IHF-A
				network))
			Dynamic range	95 dB (1 kHz) (CD: 94 dB (1 kHz))
				(CD. 34 GD (TRITZ))

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FM tuner

AM tuner

Note:

• Specifications and the design are subject to possible modifications without notice due to improvements.

AVIC-D3/XU/UC

AVIC-D3/XU/EW5 General Equaliser (3-Band Parametric Equaliser): Rated power source 14.4 V DC Low (allowable voltage range: 12.0 V to 14.4 V DC) Frequency...... 40/80/100/160 Hz Earthing system...... Negative type Q Factor...... 0.35/0.59/0.95/1.15 (+6 dB when boosted) Maximum current consumption Gain ±12dB 10.0 A Backup current 6.5 mA or less Mid Frequency...... 200/500/1 k/2 kHz Display unit: Q Factor..... 0.35/0.59/0.95/1.15 (+6 dB Dimensions (W \times H \times D): when boosted) DIN Gain ±12dB Chassis 178 X 100 X 160 mm Hiah Nose...... 188 X 118 X 13 mm Frequency...... 3.15 k/8 k/10 k/12.5 kHz Q Factor............ 0.35/0.59/0.95/1.15 (+6 dB Chassis...... 178 x 100 x 165 mm when boosted) Nose...... 170 × 97 × 8 mm Gain ±12dB Weight 2.2 kg Loudness contour: Navigation Low +3.5 dB (100 Hz), +3 dB GPS Receiver: (10 kHz) System L1, C/Acode GPS Mid...... +10 dB (100 Hz), +6.5 dB SPS (Standard Positioning (10 kHz) Service) High......+11 dB (100 Hz), +11 dB Reception system 8-channel multi-channel (10 kHz) reception system (volume: -30 dB) Reception frequency ... 1 575.42 MHz Tone controls: Sensitivity -130 dBm Bass Position update frequency Frequency..... 40/63/100/160 Hz Approx. once per second Gain ±12dB GPS aerial: Aerial Micro strip flat aerial/right-Frequency...... 2.5 k/4 k/6.3 k/10 kHz handed helical polarisation Aerial cable 5.0 m Gain ±12dB HPF: Dimensions (W \times H \times D) Frequency 50/80/125 Hz 33 × 14 × 36 mm Slope..... -12 dB/oct Weight 105 g Subwoofer: Frequency 50/80/125 Hz **Display** Slope.....-18 dB/oct Screen size/aspect ratio..... 6.1 inch wide/17:9 (effective display area: 136 X Gain ±12dB Phase......Normal/Reverse 72 mm) **DVD** Drive Type...... TFT active matrix, transmis-System...... DVD-Video, Compact disc audio, MP3, WMA, AAC, Colour system NTSC/PAL compatible DivX system Operating temperature range Usable discs DVD-Video, Compact disc, MP3, WMA, AAC, DivX Storage temperature range Region number..... 2-40 °C to +85 °C Signal format: Sampling frequency.... 44.1/48/96 kHz Ε Number of quantisation bits Maximum power output..... 50 W × 4 50 W × 2 ch/4 Ω + 70 W × 1 16/20/24; linear Frequency response...... 5 Hz to 44 000 Hz (with DVD, $ch/2 \Omega$ (for subwoofer) at sampling frequency Continuous power output ... 22 W X 4 (DIN 45324, +B=14.4 V96 kHz) Signal-to-noise ratio 97 dB (1 kHz) (IEC-A net-Load impedance 4 Ω (4 Ω to 8 Ω [2 Ω for 1 ch] work) allowable) (CD: 96 dB (1 kHz) (IEC-A Preout max output level/output impedance network)) 1.7 V/1 kohm Dynamic range 95 dB (1 kHz) (CD: 94 dB (1 kHz))

AVIC-D3/XU/UC

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Distortion 0.008 % (1 kHz)

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Output level:

Number of channels......2 (stereo)

MP3 decoding format...... MPEG-1 & 2 Audio Layer 3

WMA decoding format...... Ver.9.0 L3

AAC decoding format...... MPEG-4 AAC (only encoded

by iTunes) : .m4a

DivX decoding format...... Home Theater Ver.3, Ver.4,

Ver.5.2 : .avi, .divx

FM tuner

N: 30 dB)

Signal-to-noise ratio 75 dB (IEC-A network)

stereo)

0.1 % (at 65 dBf, 1 kHz,

mono)

Frequency response 30 Hz to 15 000 Hz (± 3 dB)

Stereo separation 45 dB (at 65 dBf, 1 kHz)

MW tuner

Frequency range 531 kHz to 1 602 kHz (9 kHz)

LW tuner

Frequency range 153 kHz to 281 kHz (9 kHz)

Usable sensitivity.......30 μ V (S/N: 20 dB)

Signal-to-noise ratio 65 dB (IEC-A network)

Note

 Specifications and design are subject to possible modifications without notice due to improvements.

AVIC-D3/XU/UC

2. EXPLODED VIEWS AND PARTS LIST

NOTES: • Parts marked by "*" are generally unavailable because they are not in our Master Spare Parts List.

- The \triangle mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- Screw adjacent to ∇ mark on the product are used for disassembly.
- For the applying amount of lubricants or glue, follow the instructions in this manual. (In the case of no amount instructions, apply as you think it appropriate.)

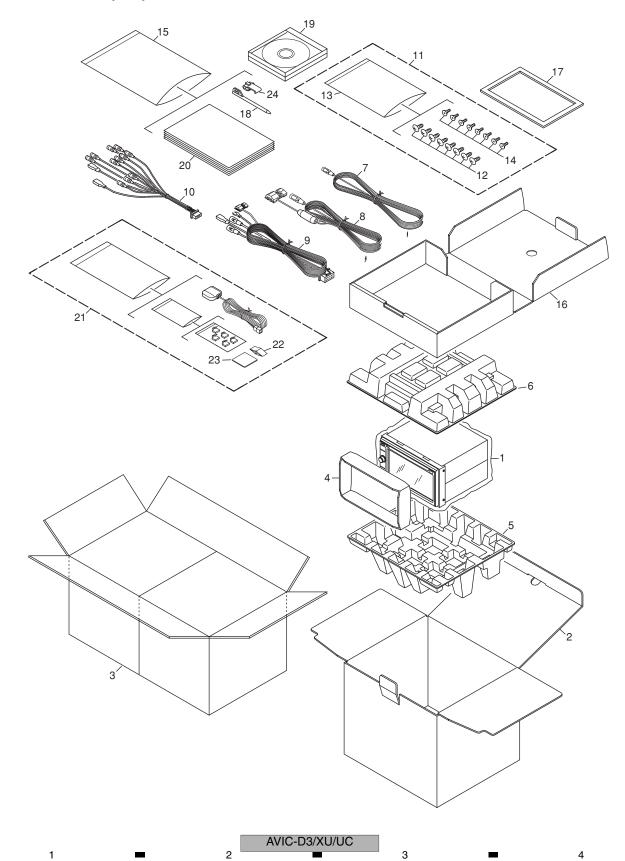
2.1 PACKING (UC)

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PACKING (UC) SECTION PARTS LIST

Mark No.	<u>Description</u>	Part No.	Mark No	<u>o.</u>	<u>Description</u>	Part No.
1	Polyethylene Bag	CEG1383	1	7	Panel	CNS9008
2	Unit Box	CHG6065	1	8	Pen	CNV8969
3	Contain Box	CHL6065	1	9	DVD-ROM	CPJ1183
4	Protector	CHP3376	20)-1	Owner's Manual	CRB2325
5	Protector	CHP3315				
			20	-2	Owner's Manual/POC/FRE	CRB2326
6	Protector	CHP3316	20	-3	Owner's Manual	CRB2327
7	Cord	CDE5044	20)-4	Owner's Manual/POC/FRE	CRB2328
8	Cord	CDE6825	20	-5	Installation Manual	CRD4167
9	Cord Assy	CDP1063	20	-6	Caution Card	CRP1310
10	Cord Assy	CDP1064				
			* 20	-7	Warranty Card	CRY1246
11	Screw Assy	CEA3797	* 20	8-(Registration Card	CRY1263
12	Screw	BMZ50P060FTC	2	1	GPS Antenna Assy	CXC4864
* 13	Polyethylene Bag	CEG-127	2	2	Water Proof Pad	CZN5442
14	Screw	CMZ50P060FTC	2	3	Sheet	CZN7008
15	Polyethylene Bag	CEG1116				
			2	4	Connector	CKX1049
16	Sub Unit Box	CHG6064				

Owner's Manual, Installation Manual

Part No.	Language
CRB2325, CRB2327	English
CRB2326, CRB2328	French
CRD4167	English, French

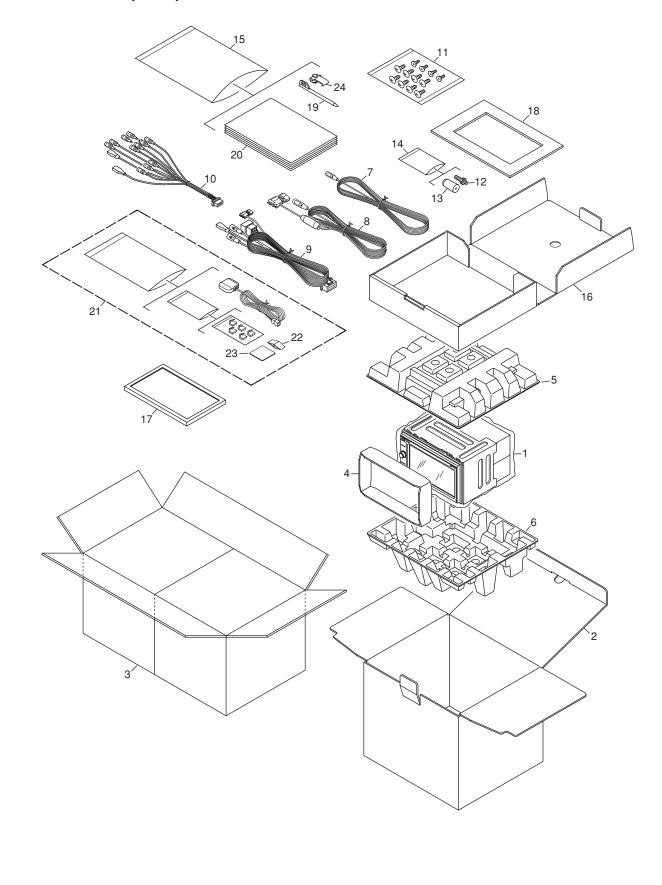
AVIC-D3/XU/UC

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2.2 PACKING (EW5)



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PACKING (EW5) SECTION PARTS LIST

Mark No.	<u>Description</u>	Part No.	Mark No.	<u>Description</u>	Part No.
1	Polyethylene Bag	CEG1382			
2	Unit Box	CHG6066	20-2	Owner's Manual/PEE/SPE	CRB2330
3	Contain Box	CHL6066	20-3	Owner's Manual/PEE/GER	CRB2331
4	Protector	CHP3376	20-4	Owner's Manual/PEE/FRE	CRB2332
5	Protector	CHP3317	20-5	Owner's Manual/PEE/ITA	CRB2333
			20-6	Owner's Manual/PEE/DUT	CRB2334
6	Protector	CHP3318			
7	Cord	CDE5044	20-7	Owner's Manual/PEE/ENG	CRB2335
8	Cord	CDE6825	20-8	Owner's Manual/PEE/SPE	CRB2336
9	Cord Assy	CDP1062	20-9	Owner's Manual/PEE/GER	CRB2337
10	Cord Assy	CDP1064	20-10	Owner's Manual/PEE/FRE	CRB2338
			20-1	Owner's Manual/PEE/ITA	CRB2339
11	Screw Assy	CEA7395			
12	Screw	CBA2081	20-12	2 Owner's Manual/PEE/DUT	CRB2340
13	Bush	CNV3930	20-13	Installation Manual	CRD4169
* 14	Polyethylene Bag	E36-615	20-14	Caution Card	CRP1310
15	Polyethylene Bag	CEG1116	* 20-15	Warranty Card	CRY1157
			21	GPS Antenna Assy	CXC4864
16	Sub Unit Box	CHG6064			
17	Panel	CNS8665	22	Water Proof Pad	CZN5442
18	Panel	CNS9007	23	Sheet	CZN7008
19	Pen	CNV8969	24	Connector	CKX1049
20-1	Owner's Manual/PEE/ENG	CRB2329			

Owner's Manual, Installation Manual

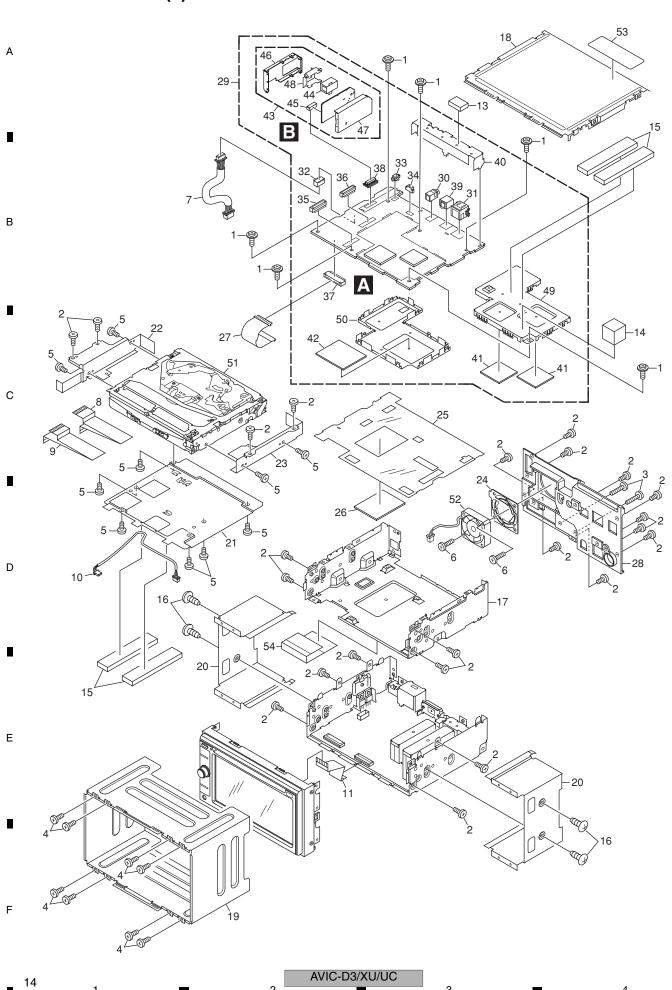
Part No.	Language
CRB2329, CRB2335	English
CRB2330, CRB2336	Spanish
CRB2331, CRB2337	German
CRB2332, CRB2338	French
CRB2333, CRB2339	Italian
CRB2334, CRB2340	Dutch
CRD4169	English, Spanish, German, French, Italian, Dutch

AVIC-D3/XU/UC

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2.3 EXTERIOR (1)



(1) EXTERIOR (1) SECTION PARTS LIST

Mark No.	<u>Description</u>	Part No.	Mark No.	<u>Description</u>	Part No.	
1	Screw	ASZ26P050FTC	28	Heat Sink	CNR1888	
2	Screw	BMZ26P050FTC	29	Navi Mother Unit	See Contrast table(2)	Α
3	Screw	BMZ26P160FTB	30	Jack(CN2063)	CKN1043	,,
4	Screw	See Contrast table(2)				
5	Screw(M2 x 3)	CBA2096	31	Connector(CN2065)	CKS3408	
			32	Connector(CN2068)	CKS4674	
6	Screw(M3 x 10)	CBA2097	33	Connector(CN2059)	CKS4822	_
7	Cord Assy	CDE8156	34	Connector(CN2061)	CKS4823	
8	FFC	CDE8312	35	Connector(CN2)	CKS5075	
9	FFC	CDE8313				
10	Cord Assy	CDE8339	36	Connector(CN2057)	CKS5075	
			37	Connector(CN2055)	CKS5110	
11	FFC	CDE8340	38	Connector(CN2060)	CKS5205	В
12	•••••		39	Connector(CN2066)	CKS5598	
13	Gasket	CNN1805	40	Holder	CND3696	
14	Gasket	CNN1804				
15	Cushion	CNN1807	41	Sheet	CNM9933	
			42	Sheet	CNN1449	_
16	Screw	See Contrast table(2)	43	GPS Unit	See Contrast table(2)	
17	Chassis	CNA2964	44	Connector(CN504)	CKS4432	
18	Case	CNB3357	45	Connector(CN461)	CKS5204	
19	Holder	See Contrast table(2)				
20	Holder	See Contrast table(2)	46	Shield	CNC9191	
			47	Shield	CNC9192	С
21	Shield	CND3692	48	Holder	CND1535	
22	Bracket	CND3697	49	Shield Assy	CXC7020	
23	Bracket	CND3698	50	Shield Assy	CXC7021	
24	Cover	CND3917				
25	Insulator	CNN1404	51	DVD Mechanism Module(MS5)	CXK6601	
			52	Fan Motor	CXM1320	
26	Sheet	CNN1449	53	Label	See Contrast table(2)	
27	Flexible PCB	CNP8272	54	Shield	CNN1806	

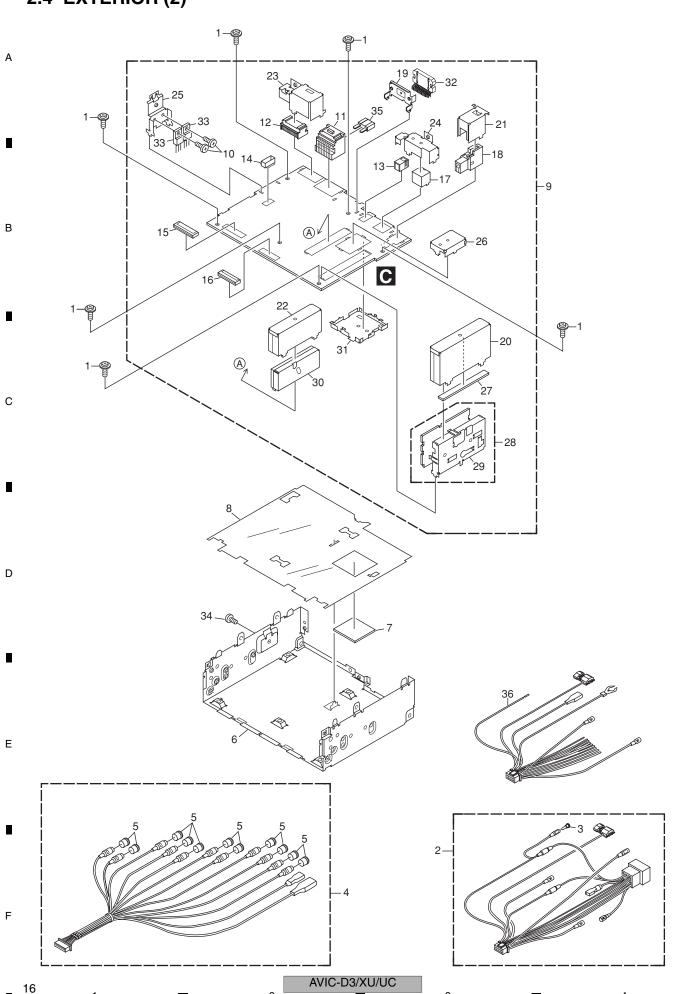
(2) CONTRAST TABLEAVIC-D3/XU/UC and AVIC-D3/XU/EW5 are constructed the same except for the following:

Mark	No.	Description	AVIC-D3/XU/UC	AVIC-D3/XU/EW5
	4	Screw	Not used	BMZ30P060FTC
	16	Screw	Not used	CMZ50P060FTC
	19	Holder	Not used	CND3430
	20	Holder	Not used	CND3431
	29	Navi Mother Unit	CWN2189	CWN2089
	43	GPS Unit	CWX3446	CWX3447
	53	Label	Not used	CAN5448

AVIC-D3/XU/UC

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2.4 EXTERIOR (2)



(1) EXTERIOR (2) SECTION PARTS LIST

Mark No.	<u>Description</u>	Part No.	Mark	<u>No.</u>	<u>Description</u>	Part No.	
1	Screw	ASZ26P050FTC		20	Shield	CND3004	
2	Cord Assy	See Contrast table(2)					Α
3	Сар	See Contrast table(2)		21	Holder	CND3181	
4	Cord Assy	CDP1064		22	Shield	See Contrast table(2)	
5	Сар	CNV6727		23	Holder	CND3693	
				24	Holder	CND3694	
6	Chassis	See Contrast table(2)		25	Holder	CND3695	_
7	Sheet	CNM9933					
8	Insulator	CNN1403		26	Shield	See Contrast table(2)	
9	AV Unit	See Contrast table(2)		27	Sheet	CNM9805	
10	Screw	BMZ26P060FTC		28	FM/AM Tuner Unit(Y1431)	See Contrast table(2)	
				29	Holder	CND1054	
11	Plug(CN1651)	CKM1376		30	Tuner Unit(Y1452)	See Contrast table(2)	В
12	Connector(CN1701)	CKM1460					
13	Jack(CN1721)	CKN1042		31	Shield Assy	CXC7172	
14	Connector(CN1652)	CKS4674		32	IC(IC1201)	PAL007C	
15	Connector(CN1711)	CKS5110		33	IC(IC1821,1841)	BA00C0WCP-V5	
				34	Screw	BMZ26P050FTC	
16	Connector(CN1661)	CKS5486	\triangle	35	Fuse(10A)	CEK1208	
17	Connector(CN1621)	CKS5683					
18	Antenna Jack(CN1401)	CKX1060		36	Cord Assy	See Contrast table(2)	
19	Holder	CNC9921					

 $\hbox{\bf (2) CONTRAST TABLE} \\ {\rm AVIC-D3/XU/UC \ and \ AVIC-D3/XU/EW5 \ are \ constructed \ the \ same \ except \ for \ the \ following:} \\$

Mark	No.	Description	AVIC-D3/XU/UC	AVIC-D3/XU/EW5
	2	Cord Assy	Not used	CDP1062
	3	Cap	Not used	CKX-003
	6	Chassis	CNA2971	CNA2963
	9	AV Unit	CWN2190	CWN2090
	22	Shield	Not used	CND3188
	26	Shield	Not used	CND3769
	28	FM/AM Tuner Unit(Y1431)	CWE1952	CWE1951
	30	Tuner Unit(Y1452)	Not used	CWE2023
	36	Cord Assy	CDP1063	Not used

AVIC-D3/XU/UC

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AVIC-D3/XU/UC

(1) EXTERIOR (3) SECTION PARTS LIST

Mark No.	Description	Part No.	Mark No.	Description	Part No.	
1	Screw	BMZ26P030FTC	21	Holder	CND3759	
2	Screw	BPZ20P080FTC	22	Insulator	CNN1431	Α
3	Button	CAC9994	23	Insulator	CNN1444	Α
4	Button	CAC9995	24	Monitor Unit	See Contrast table(2)	
5	Button	CAC9996	25	Connector(CN5006)	CKS4428	
6	Screw(M2 x 3)	CBA1797	26	Connector(CN5004)	CKS4825	
7	FFC	CDE8341	27	Connector(CN5002)	CKS5033	
8	Cord Assy	CDE8343	28	Connector(CN5003)	CKS5037	
9	Cushion	CNN1429	29	Connector(CN5007)	CKS5050	
10	Cover	CNN1432	30	Connector(CN5001)	CKS5054	
11	Lighting Conductor	CNV9371	31	Cushion	CNN1445	В
12	Holder	CNV9375	32	LCD Module	CWX3435	
13	Touch Panel	CSX1114	33	Screw	PMB20P040FTC	
14	Jack(CN5552)	CKN1046	34	Grille Assy	See Contrast table(2)	
15	Connector(CN4825)	CKS4825	35	Knob Assy	CXC7160	
16	Connector(CN5503)	CKS5037	36	Screw	IMS26P040FTC	
17	Holder	CND3755	37	REMOTE IC(IC5307)	GP1UX51RK	
18	Screw(M2 x 2)	CBA1771	38	Cushion	CNN1704	
19	Holder	CND3757	39	Shield	CNN1731	
20	Holder	CND3758	40	Shield	CND3932	
						C

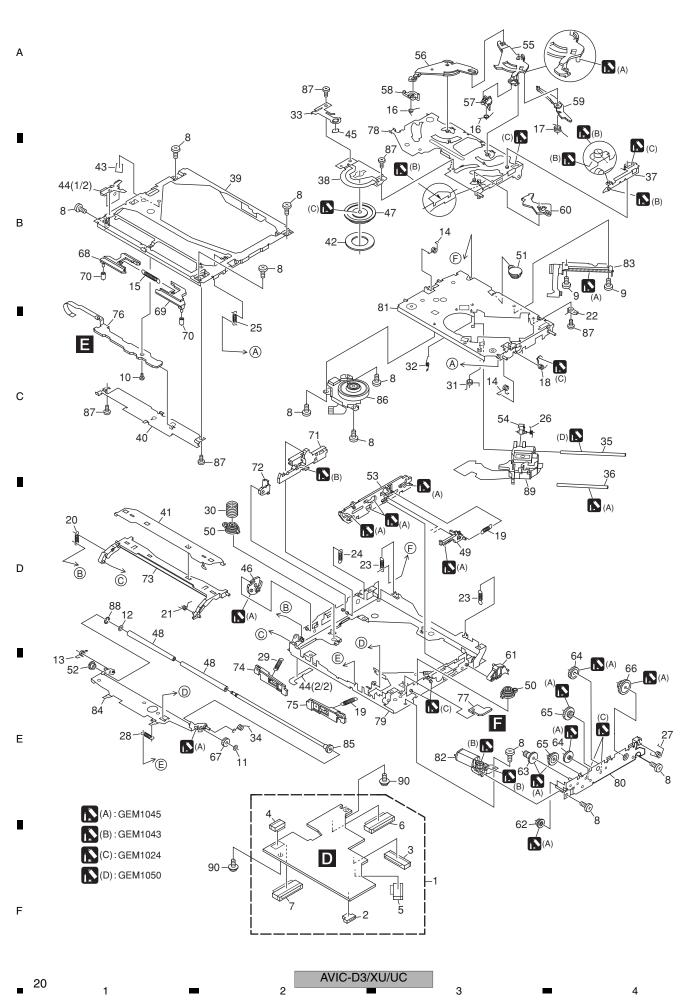
 $\hbox{\bf (2) CONTRAST TABLE} \\ {\rm AVIC-D3/XU/UC \ and \ AVIC-D3/XU/EW5 \ are \ constructed \ the \ same \ except \ for \ the \ following:} \\$

Mark	No.	Description	AVIC-D3/XU/UC	AVIC-D3/XU/EW5
	24	Monitor Unit	CWN2188	CWN2091
	34	Grille Assy	CXC7159	CXC7158

AVIC-D3/XU/UC

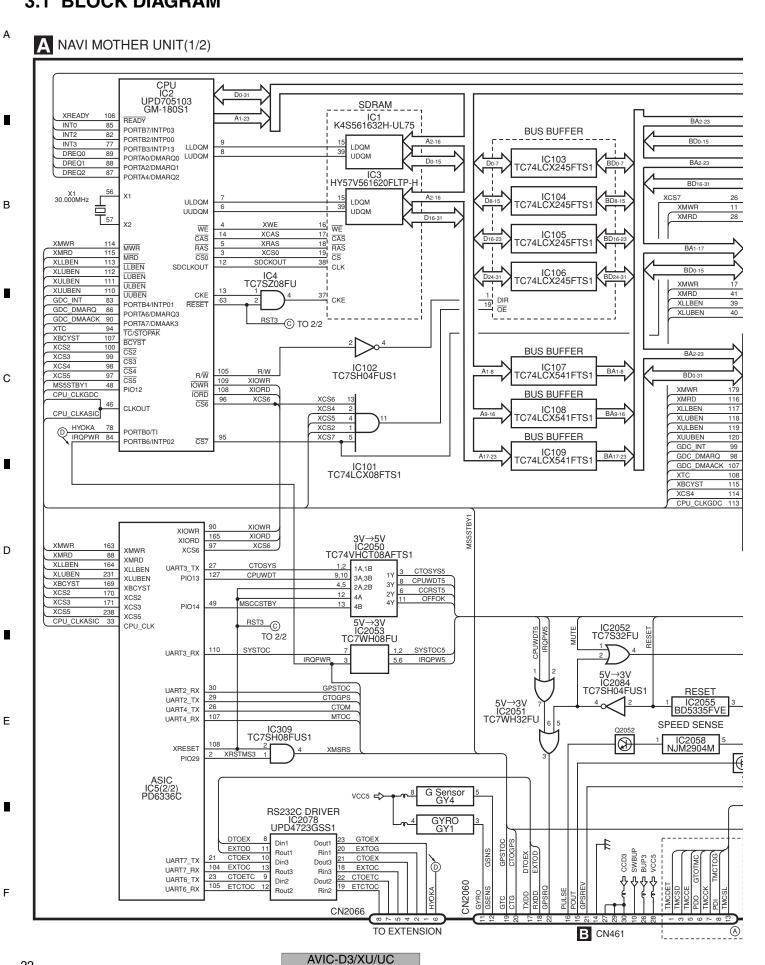
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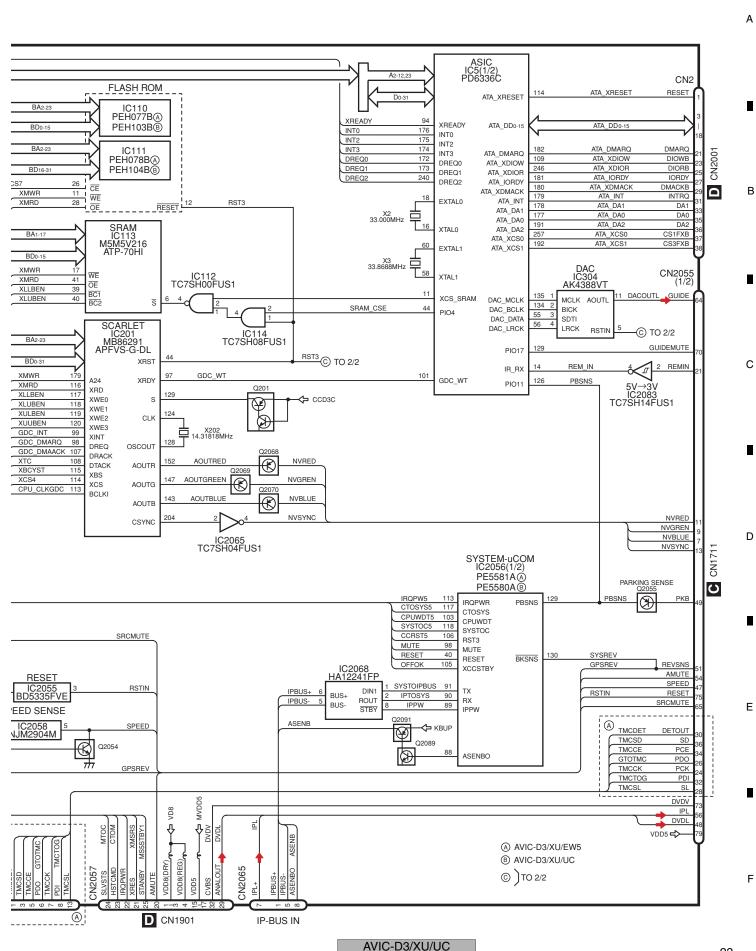
2.6 DVD MECHANISM MODULE



	5	6		7	8	
DVD ME	CHANISM MODU	ILE SECTION PARTS LIST				
Mark No.	Description	Part No.	Mark No.	<u>Description</u>	Part No.	
1	DVD Core Unit	CWX3401	50	Damper	CNV9061	
2	Connector(CN1852)	CKS4817				Α
3	Connector(CN1101)	CKS4841	51	Damper	CNV9062	
4	Connector(CN1301)	CKS5017	52	Collar	CNV8845	
5	Connector(CN1201)	CKS5043	53	Lever	CNV8865	
			54	Rack	CNV9063	
6	Connector(CN1901)	CKS5054	55	Arm	CNV8867	_
7	Connector(CN2001)	CKS5054				
8	Screw	BMZ20P020FTC	56	Arm	CNV8868	
9	Screw	BMZ20P025FNI	57	Arm	CNV9577	
10	Screw	CBA1787	58	Arm	CNV8870	
			59	Arm	CNV8871	
11	Washer	CBF1038	60	Arm	CNV8872	В
12	Washer	CBF1064				
13	Spring	CBH2586	61	Arm	CNV8873	
14	Spring	CBH2588	62	Gear	CNV8874	
15	Spring	CBH2589	63	Gear	CNV8875	
			64	Gear	CNV8876	_
16	Spring	CBH2590	65	Gear	CNV8877	
17	Spring	CBH2591				
18	Spring	CBH2592	66	Gear	CNV8878	
19	Spring	CBH2593	67	Gear	CNV8879	
20	Spring	CBH2596	68	Lever	CNV8903	
			69	Lever	CNV8904	С
21	Spring	CBH2597	70	Roller	CNV8905	
22	Spring	CBL1726				
23	Spring	CBH2599	71	Lever	CNV8908	
24	Spring	CBH2600	72	Arm	CNV8909	
25	Spring	CBH2601	73	Guide	CNV8910	
			74	Arm	CNV9116	_
26	Spring	CBH2926	75	Arm	CNV9117	
27	Spring	CBH2604				
28	Spring	CBH2605	76	Compound Unit(A)	CWX3154	
29	Spring	CBH2710	77	Compound Unit(B)	CWX3394	
30	Spring	CBH2711	* 78	Arm Unit	CXC7872	D
			79	Frame Unit	CXC6442	
31	Spring	CBH2935	80	Bracket Unit	CXB8685	
32	Spring	CBH2890				
33	Spring	CBL1689	81	Chassis Unit	CXC6443	
34	Spring	CBH2898	82	Motor Unit(LOAD)(M1)	CXC4912	
35	Shaft	CLA4206	83	Motor(STEPPING)(M2)	CXM1364	
			84	Arm Unit	CXC5486	
36	Shaft	CLA4701	85	Roller Unit	CXC5708	
37	Lever	CNC9933				
38	Holder	CND2643	86	Motor(SPDL)(M3)	CXM1362	Е
39	Frame	CND2250	87	Screw	JFZ20P018FTC	<u> </u>
40	Holder	CND2251	88	Washer	YE20FTC	
			89	Pickup Unit(Service)	CXX2118	
41	Holder	CND2642	90	Screw	IMS20P030FTC	
42	Sheet	CNM6883				
43	Sheet	CNM8697				
44	Sheet	CNM9658				
45	Sheet	CNM9407				
40	Com	CN1/7450				
46 47	Clampor	CNV7156				F
47	Clamper	CNV7158				F
48	Roller	CNV7165				
49	Rack	CNV7175				
		AV	/IC-D3/XU/UC			04
	5	6		7	8	21

3. BLOCK DIAGRAM AND SCHEMATIC DIAGRAM 3.1 BLOCK DIAGRAM





A NAVI MOTHER UNIT(2/2)

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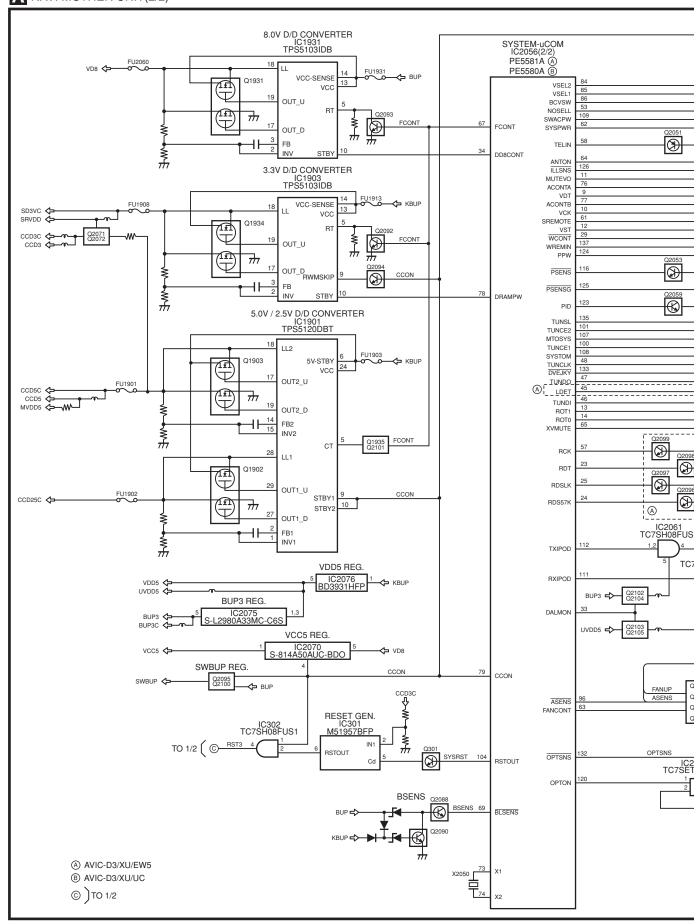
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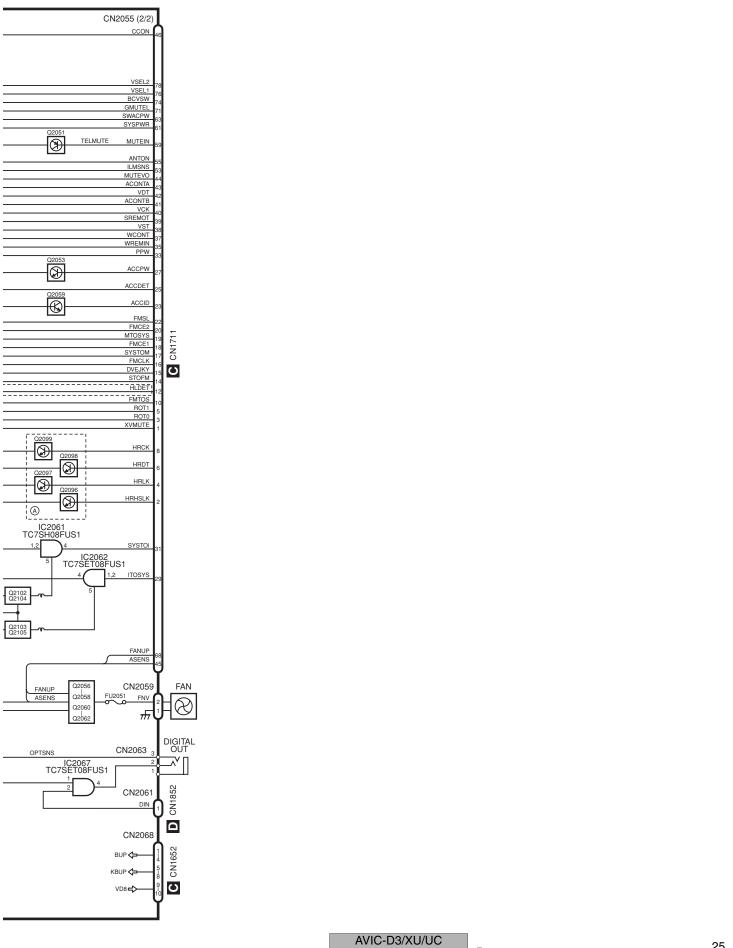
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AVIC-D3/XU/UC

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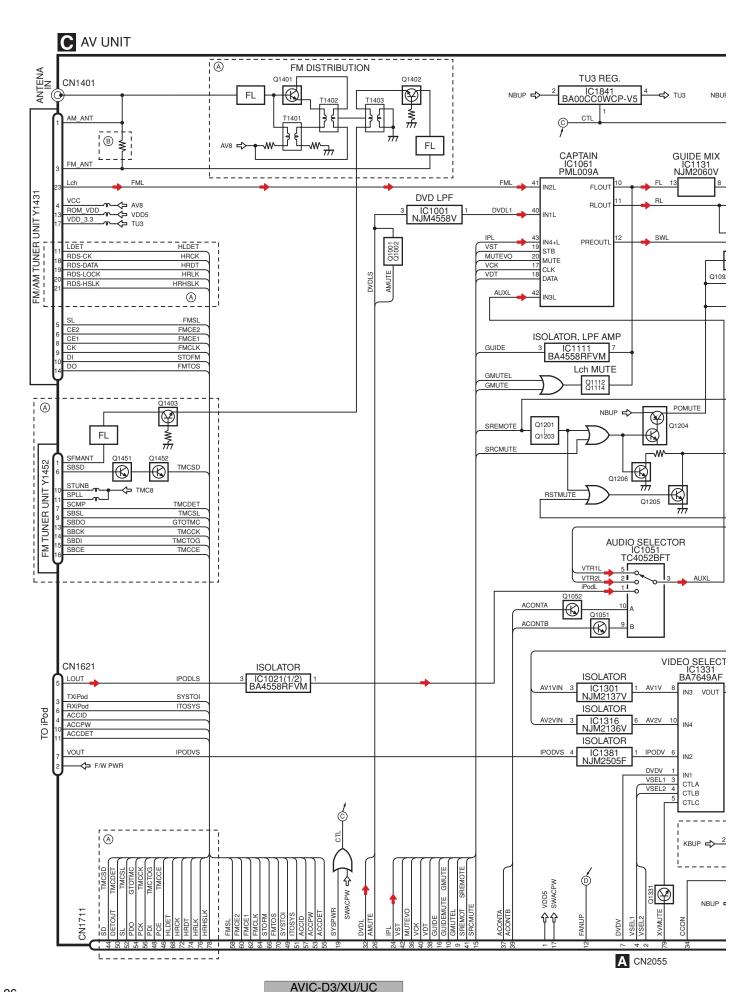
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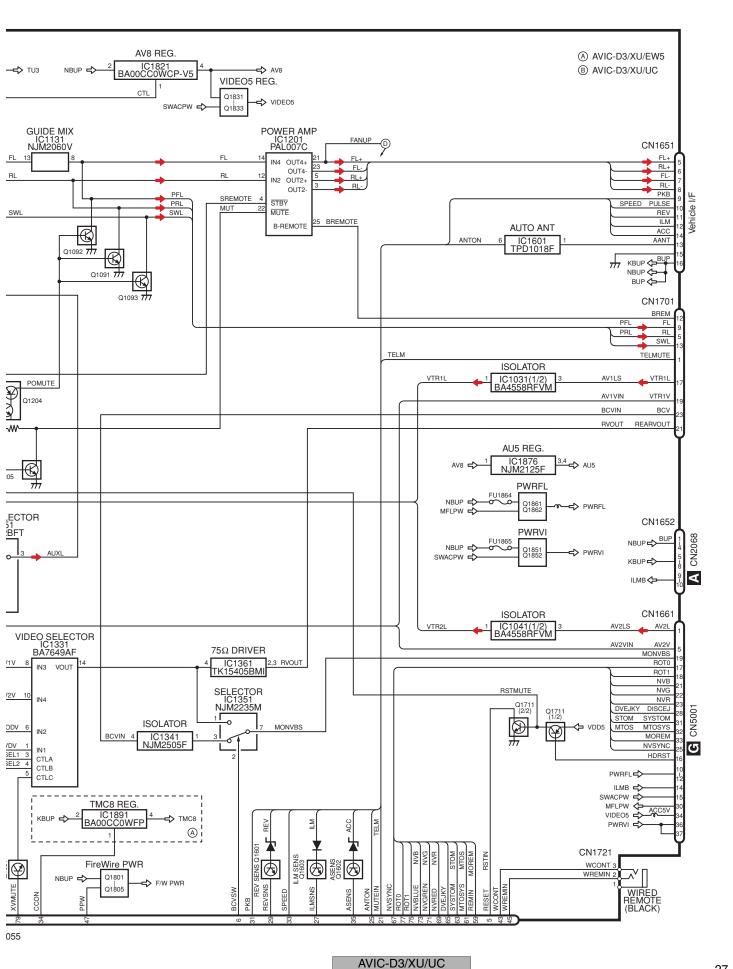
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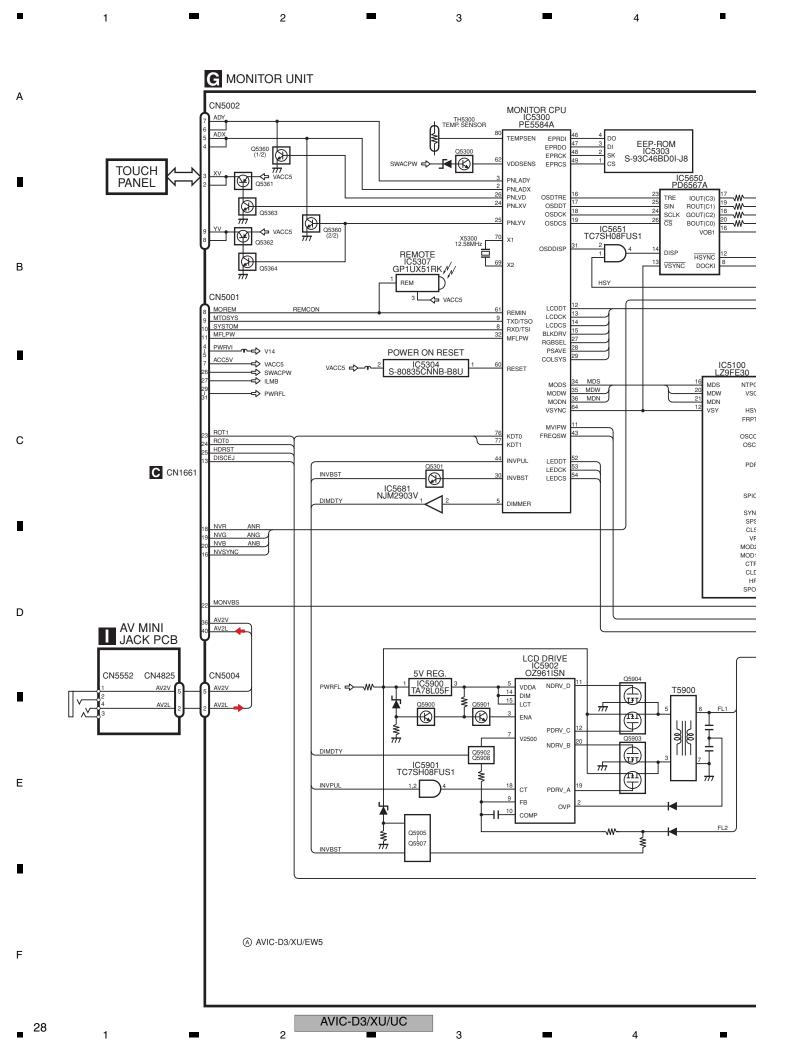
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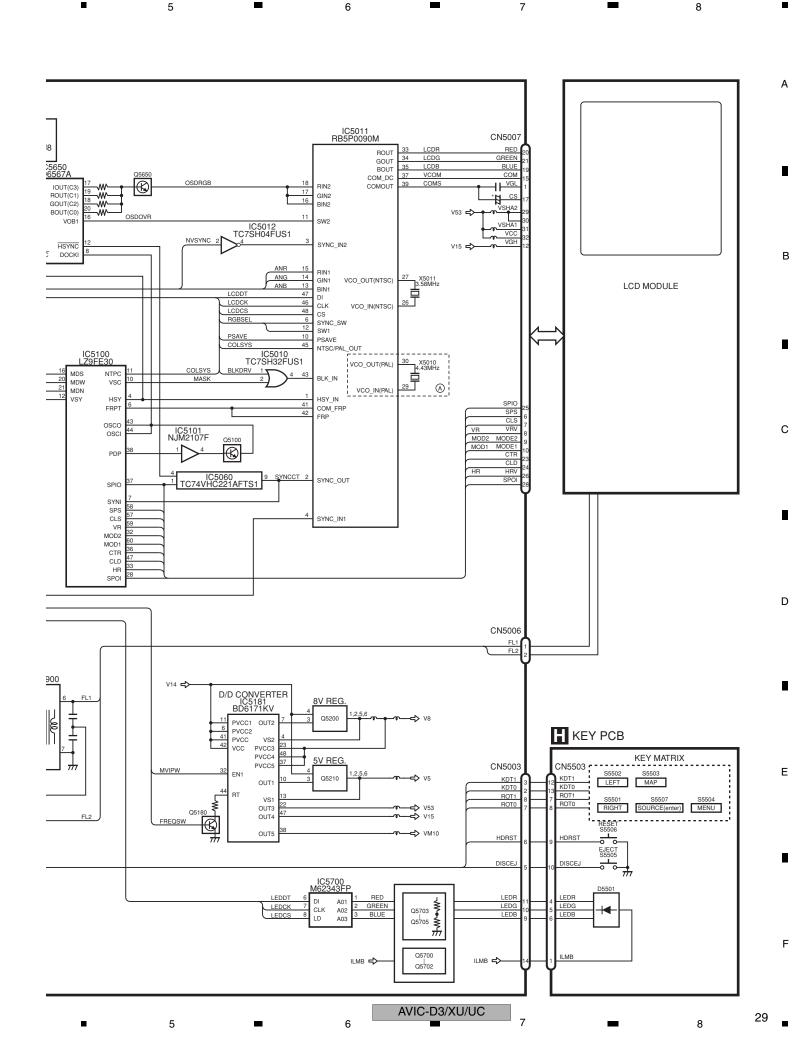
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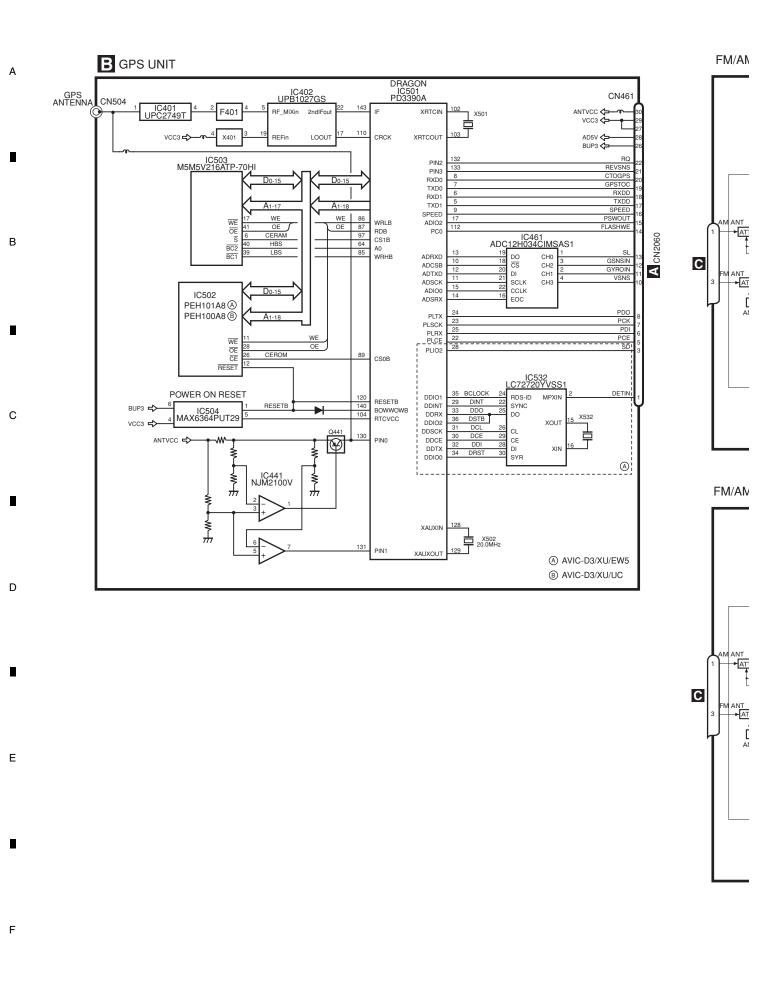
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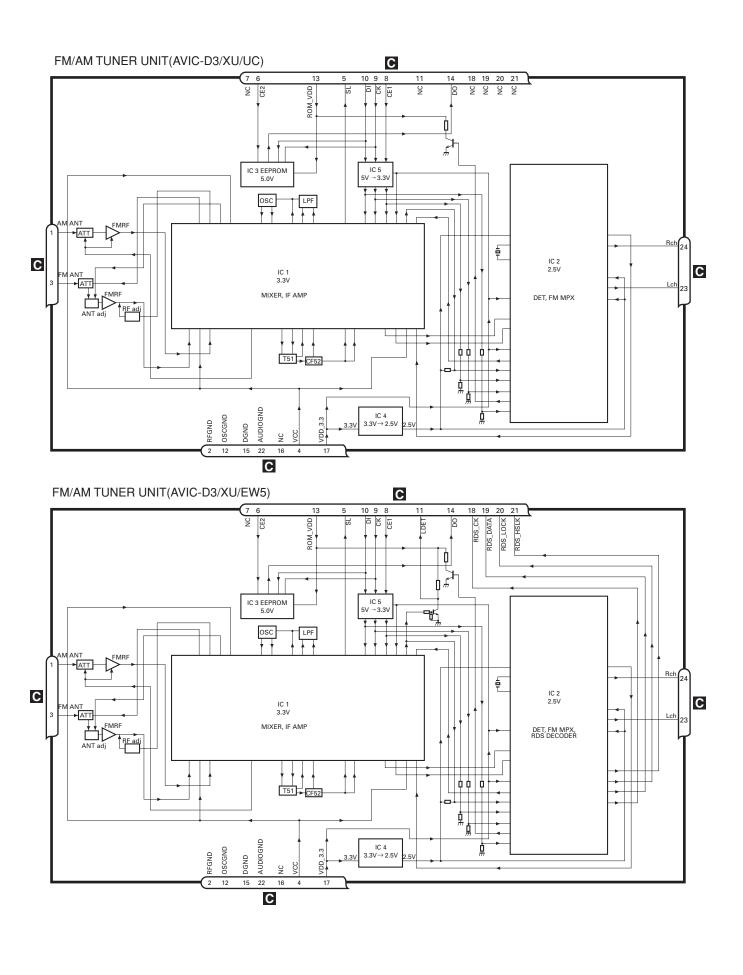
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30 AVIC-D3/XU/UC



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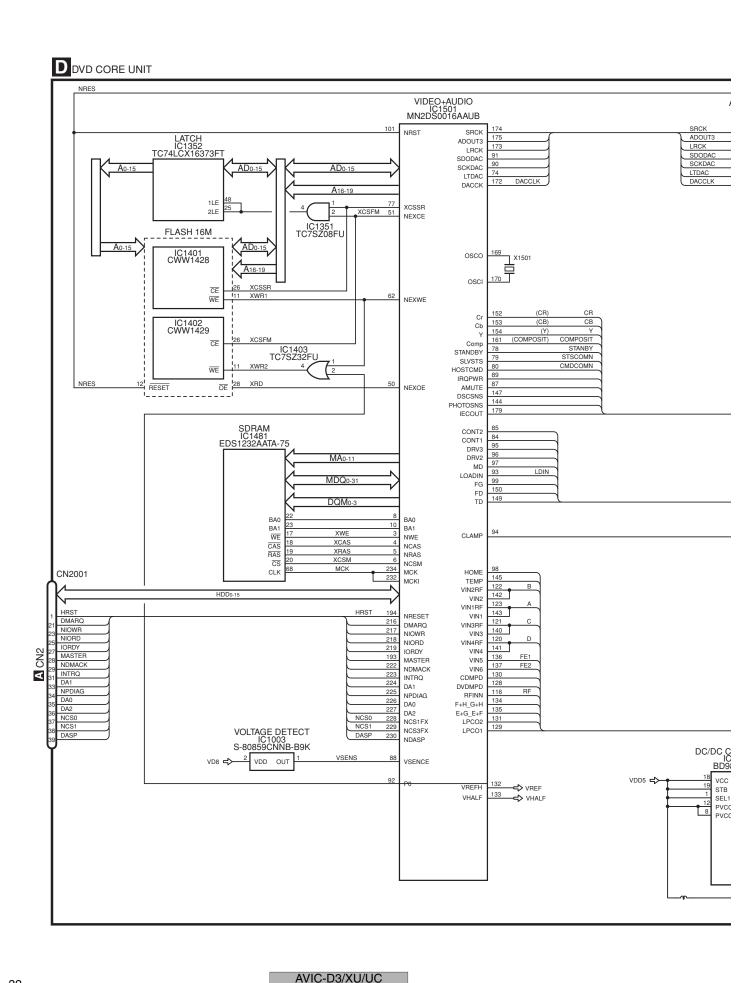
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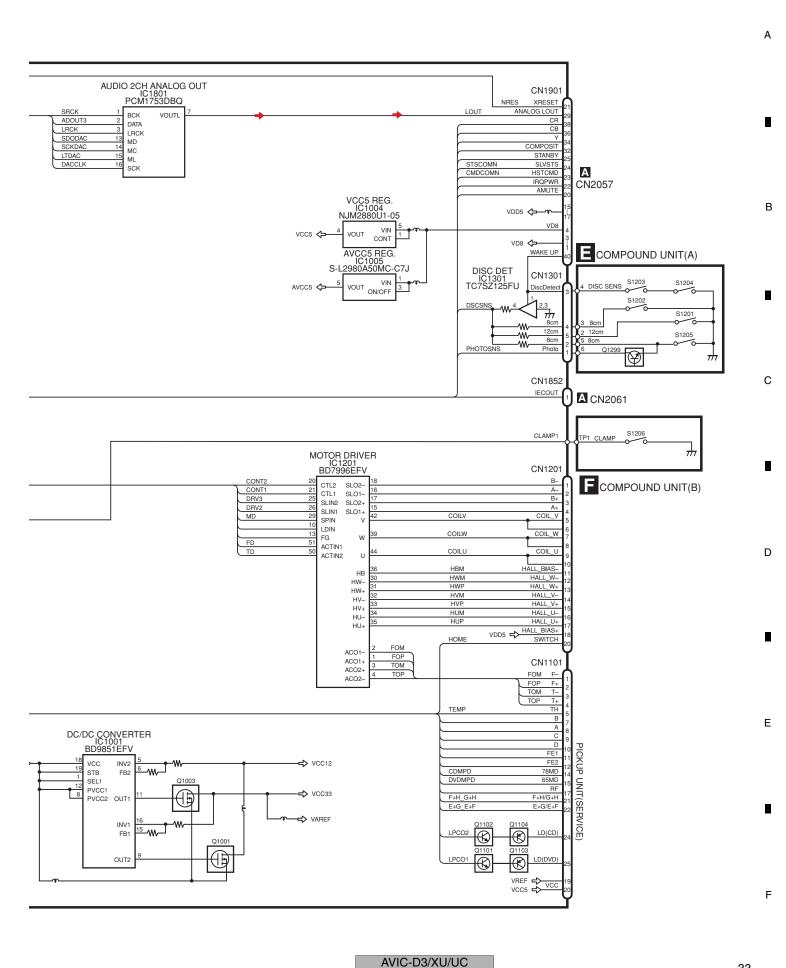
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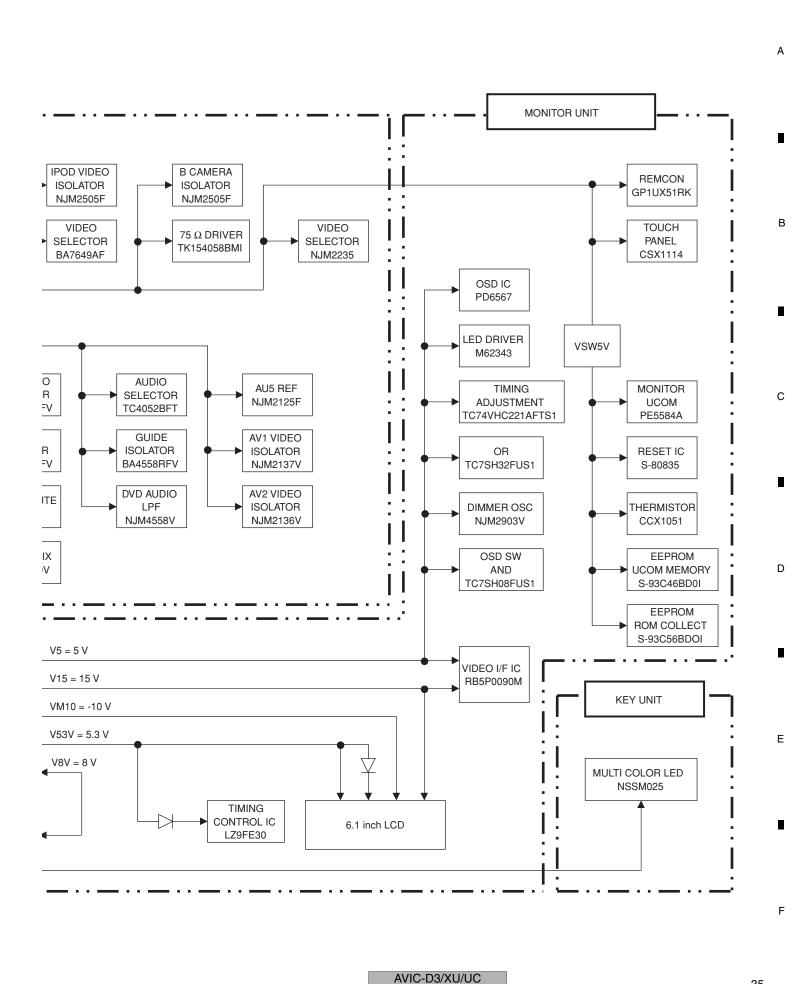
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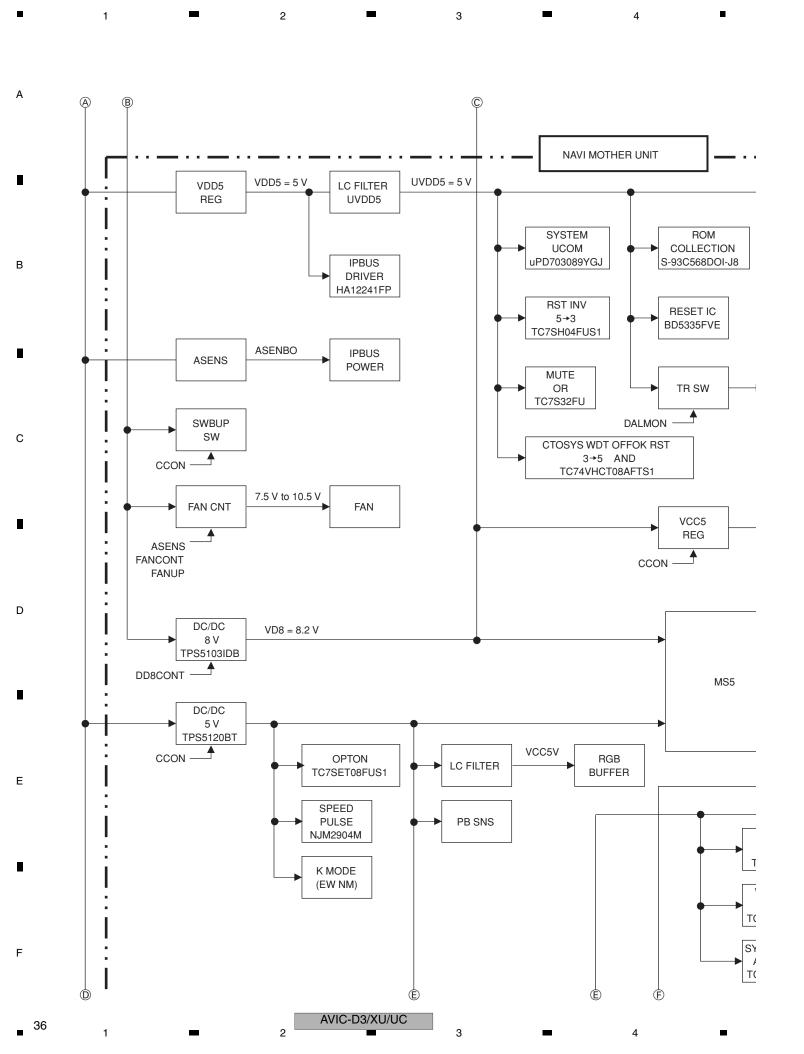
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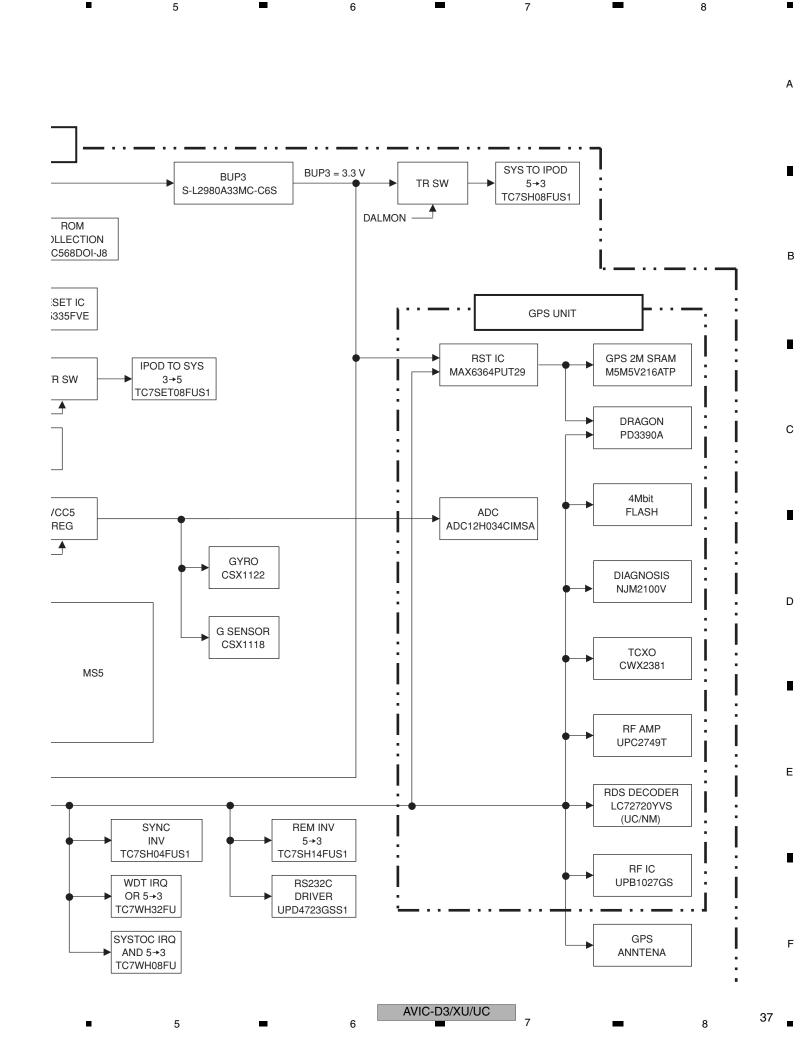
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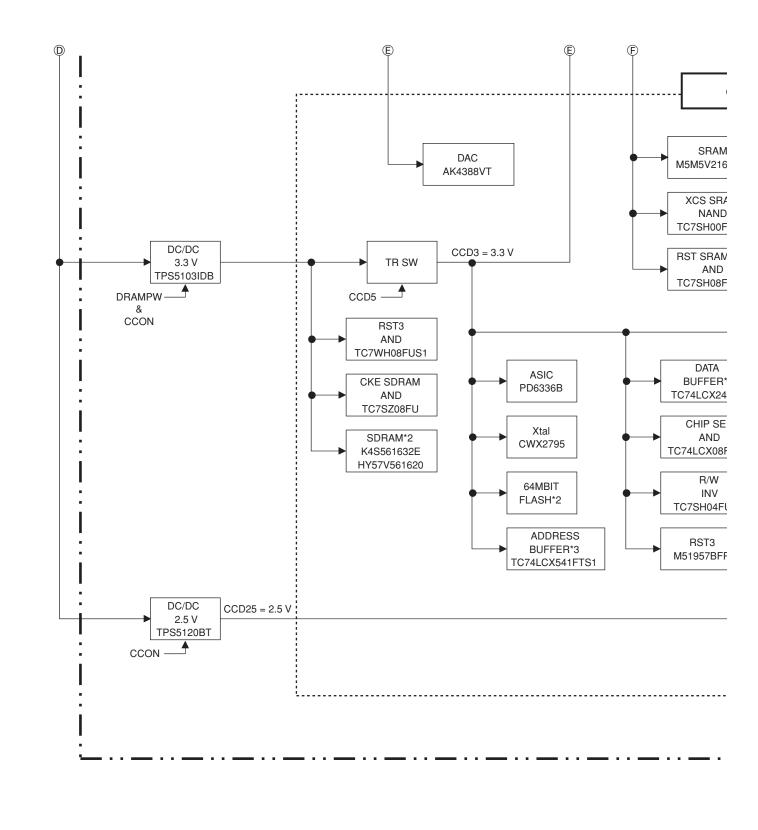
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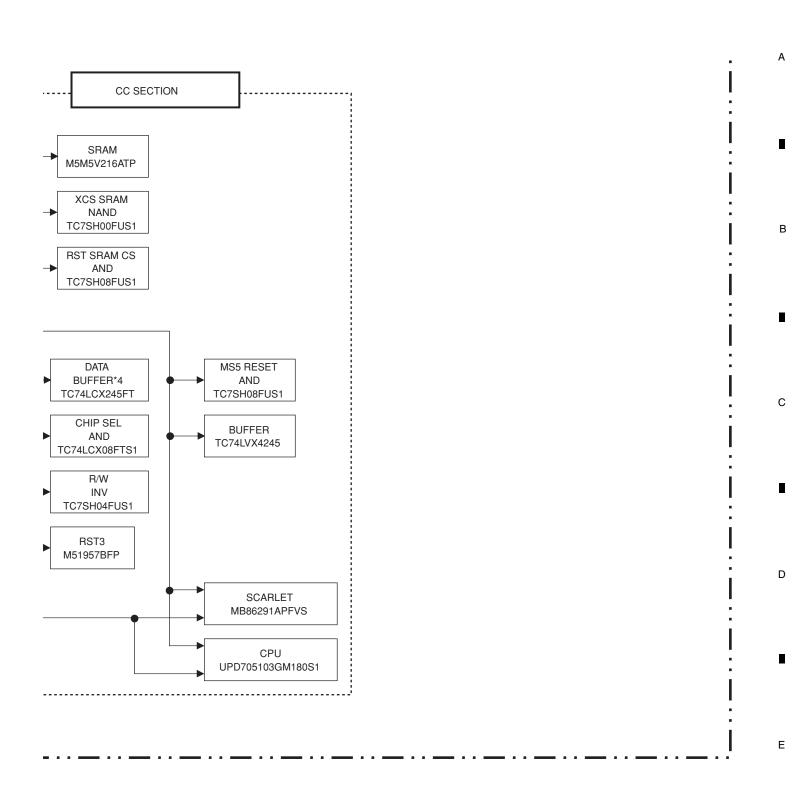
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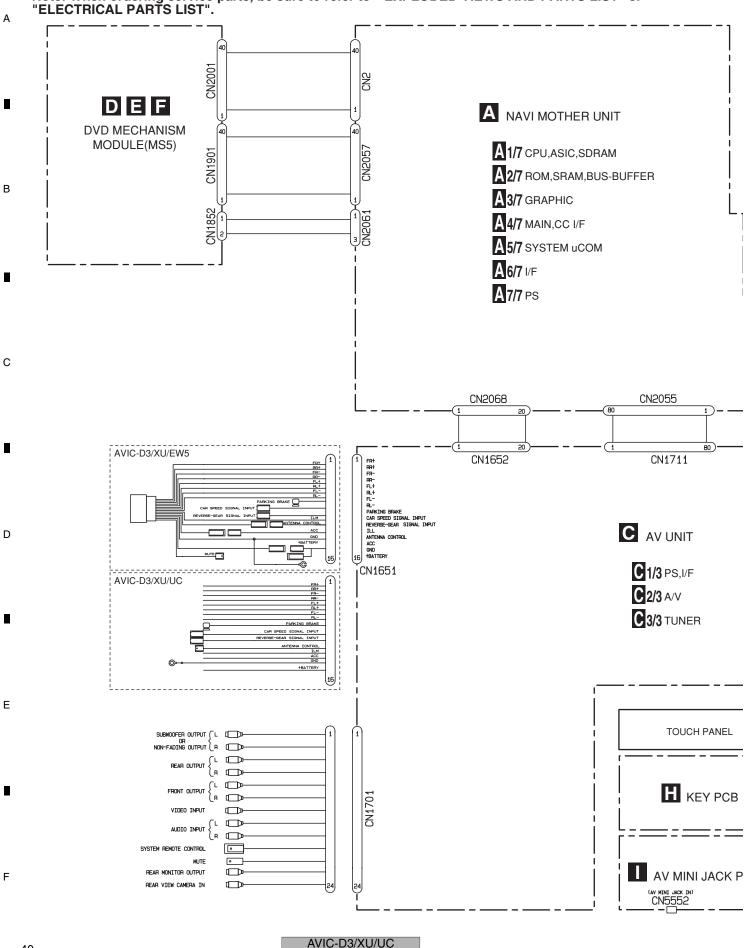
38 AVIC-D3/XU/UC 3

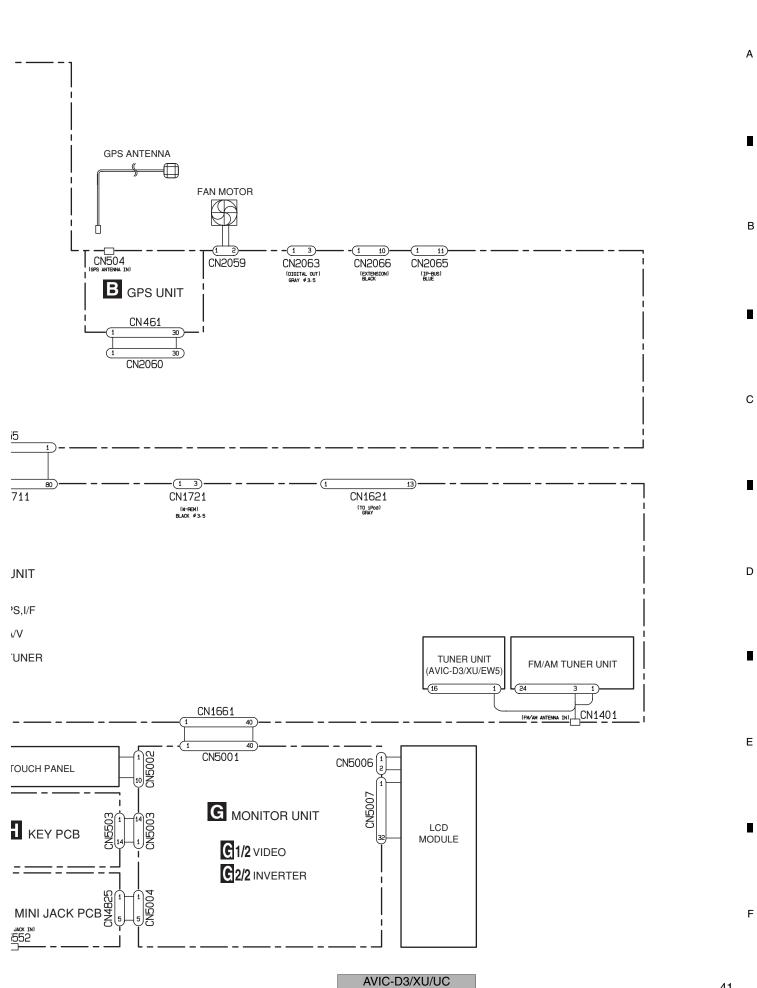


AVIC-D3/XU/UC 7

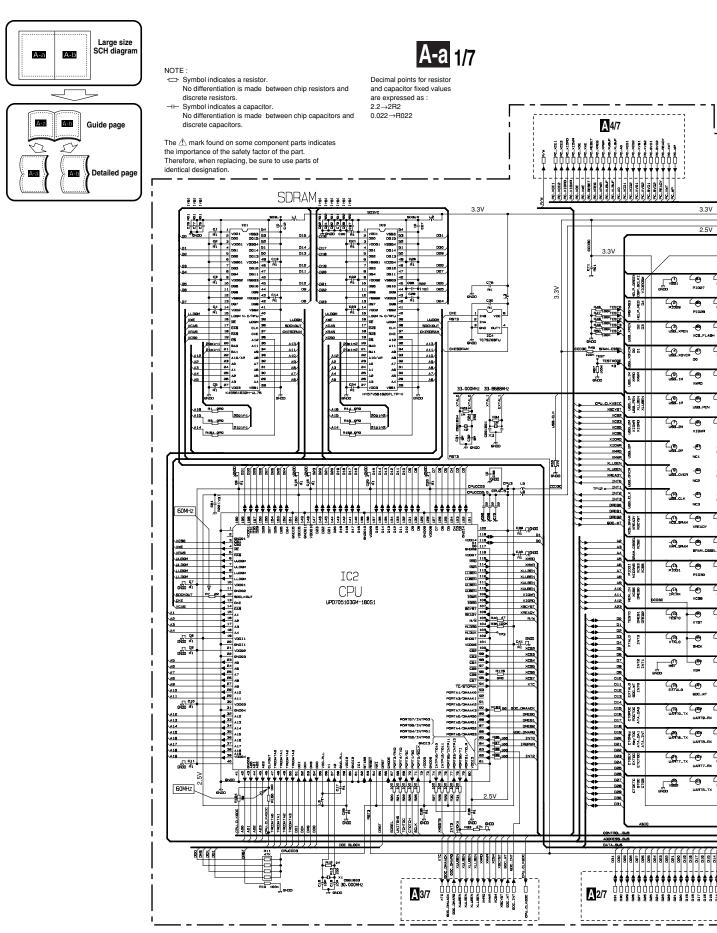
Note: When ordering service parts, be sure to refer to " $\tt EXPLODED \ VIEWS \ AND \ PARTS \ LIST"$ or "ELECTRICAL PARTS LIST".

3





3.3 NAVI MOTHER UNIT (CPU, ASIC, SDRAM)(GUIDE PAGE)



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AVIC-D3/XU/UC

42 AVIC-D3/X0/0C 3

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AVIC-D3/XU/UC

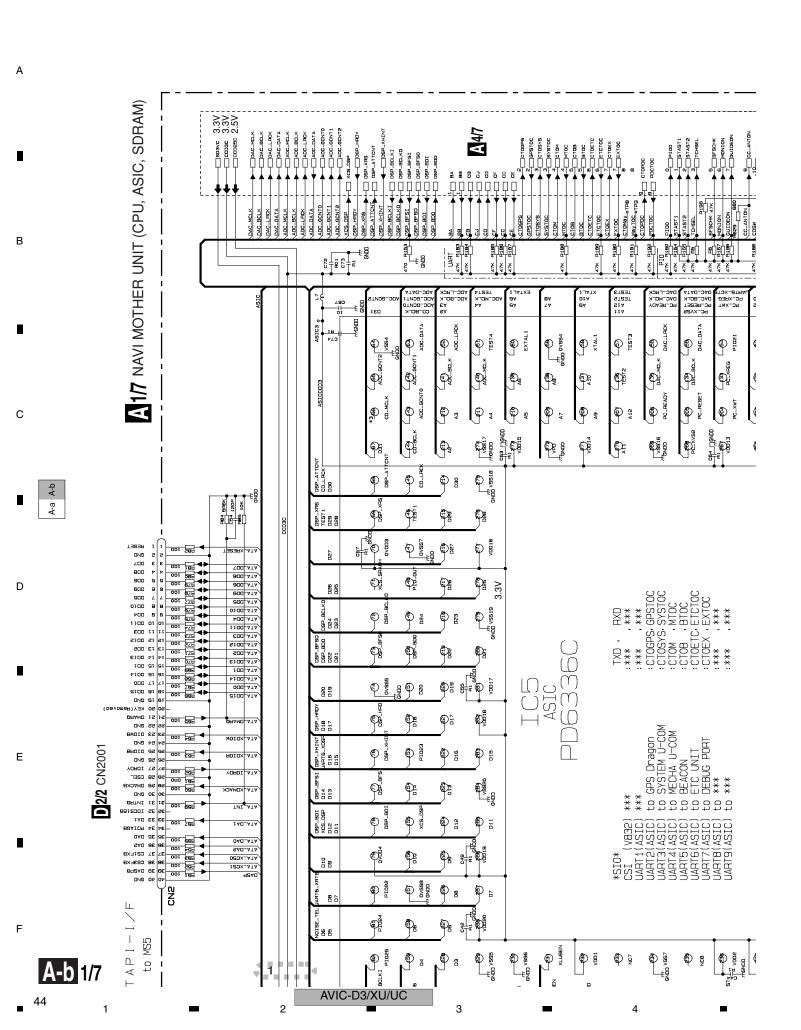
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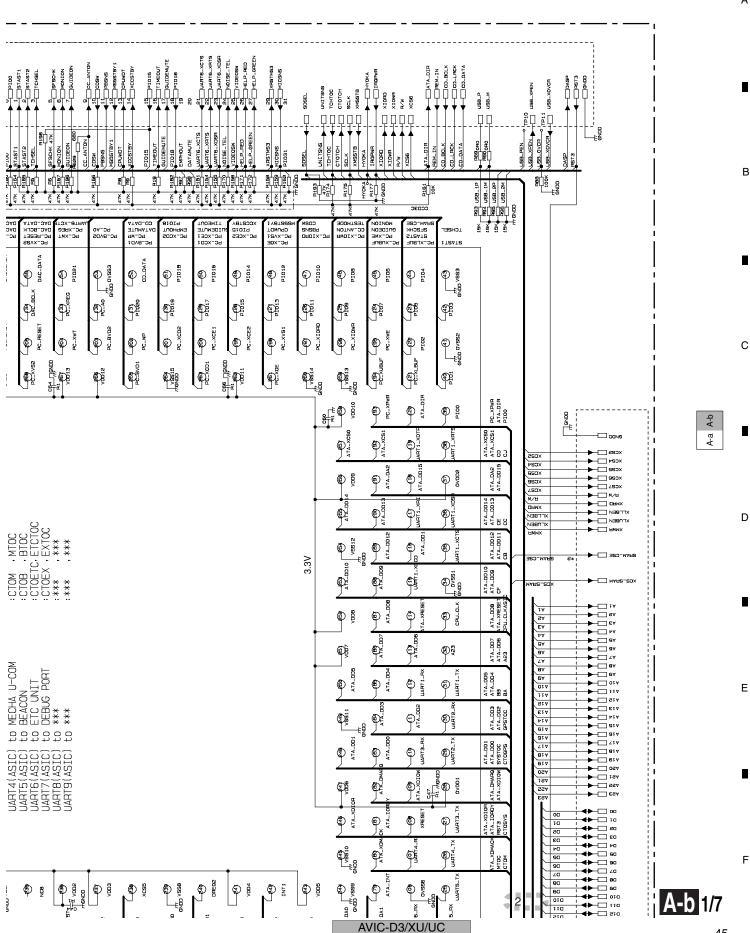
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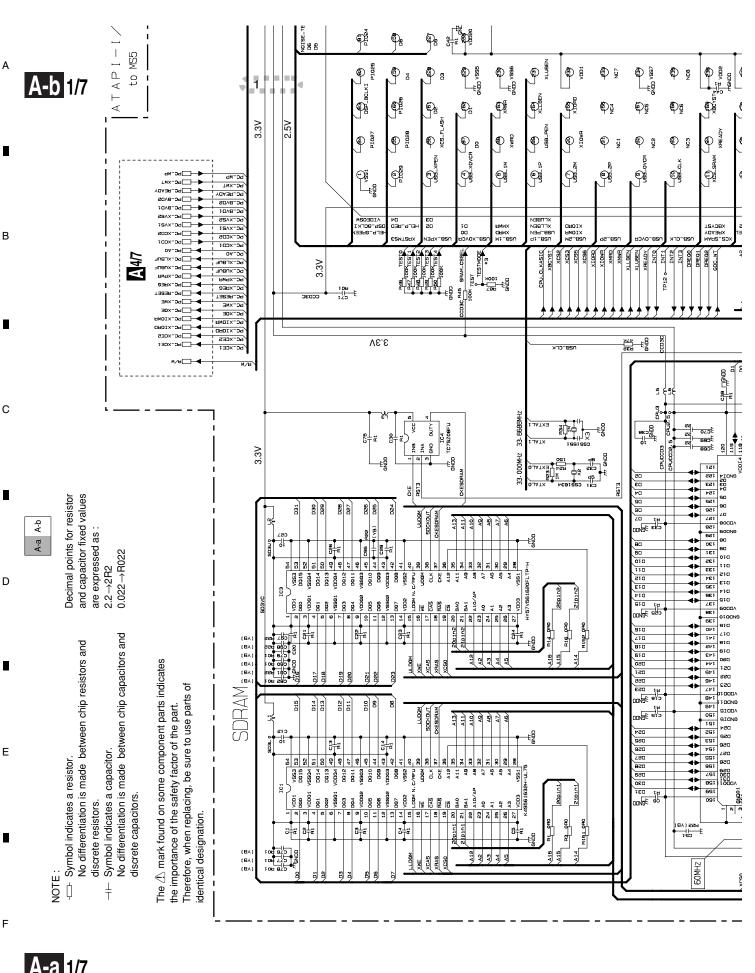




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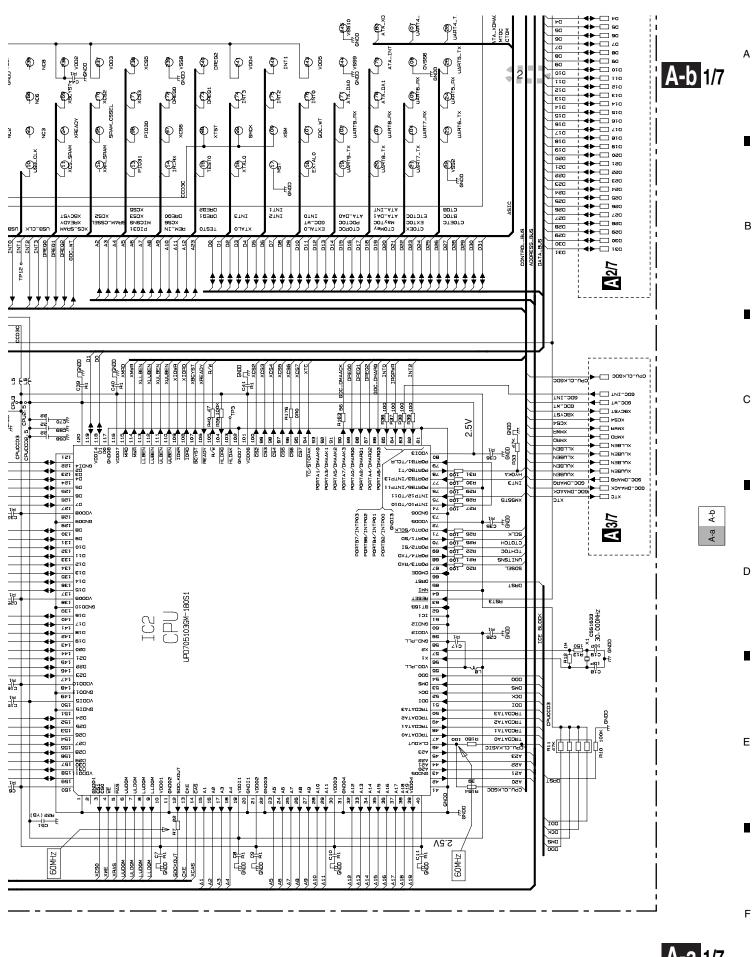
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A-a 1/7

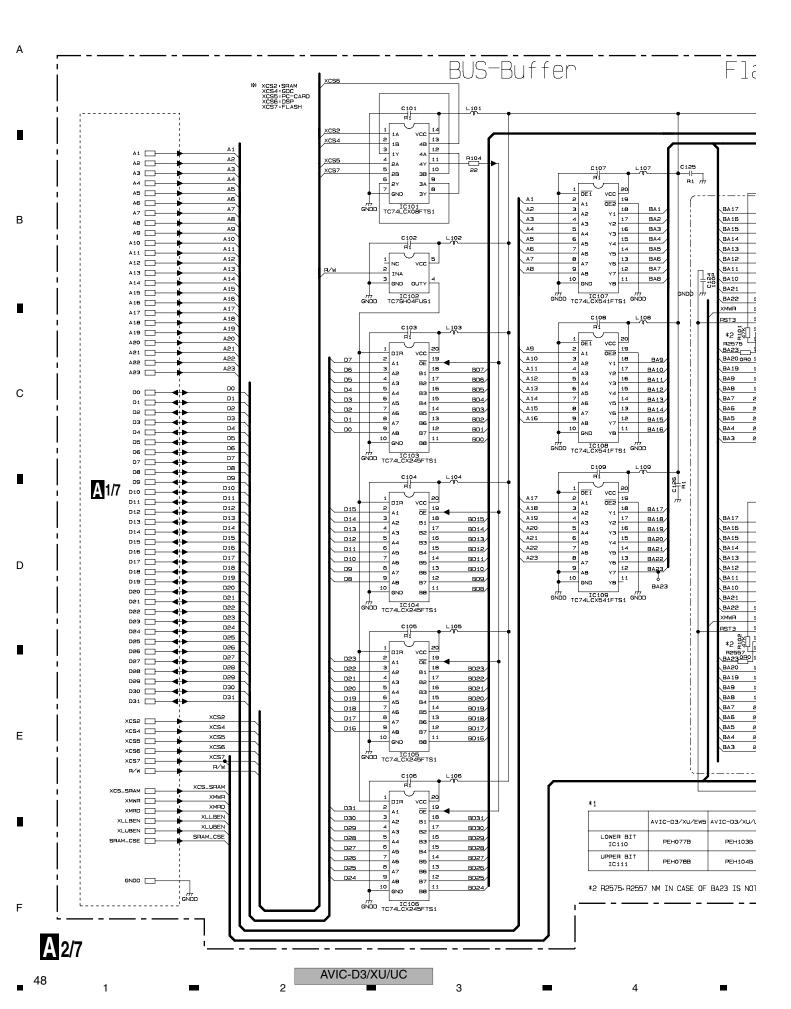
AVIC-D3/XU/UC



A-a 1/7

AVIC-D3/XU/UC

3.4 NAVI MOTHER UNIT (ROM, SRAM, BUS-BUFFER)

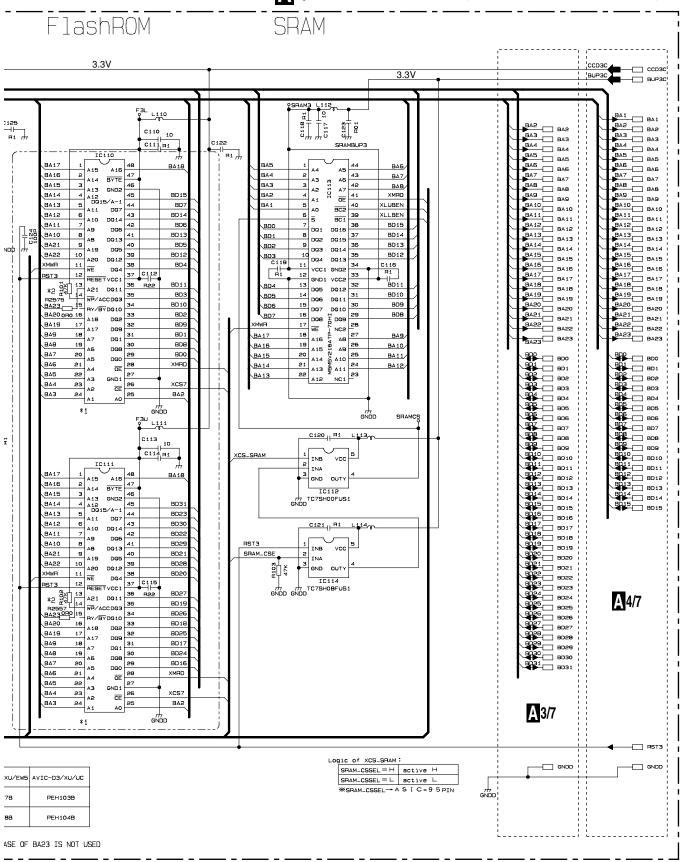


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A 2/7

AVIC-D3/XU/UC 7

3.5 NAVI MOTHER UNIT (GRAPHIC)(GUIDE PAGE)

A-a 3/7 GDC_INT
GDC_WT
XBCYST
XCS4
XMRD
XMRR
XLLBEN
XLLBEN
XUUBEN
XUUBEN
GDC_DMARQ
GDC_DMARQ
XTC A 1/7 Ces 1 (60) E ... CADD) | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 BA2 BA3 BA4 BA5 BA6 BA12 BA13 BA12 BA13 BA14 BA15 BA16 BA17 BA18 BA19 BA20 BA21 BA22 BA23 800 801 802 803 804 805 806 807 808 809 8010 **A** 2/7 CHDOTT CSO: BD11 BD12 BD13 BD14 BD15 BD16 BD18 BD19 BD20 BD21 BD22 BD23 BD24 BD25 BD26 BD27 BD28 BD29 BD30 GNDD GNDD

A 3/7

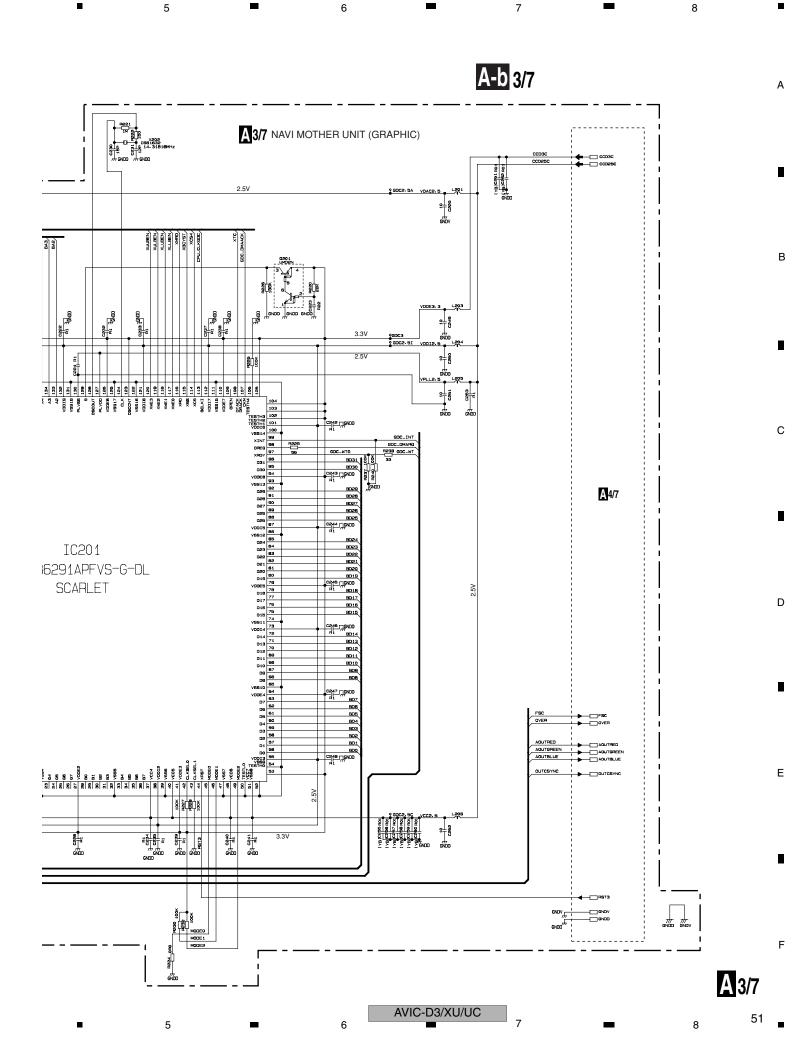
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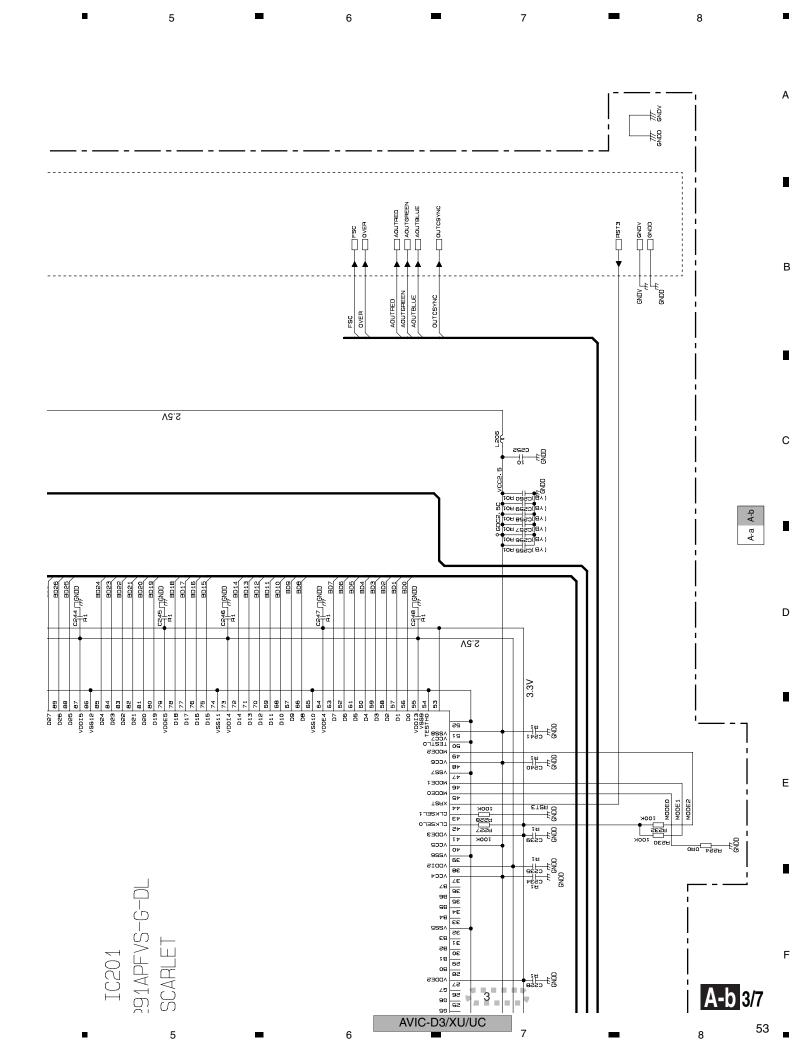
AVIC-D3/XU/UC

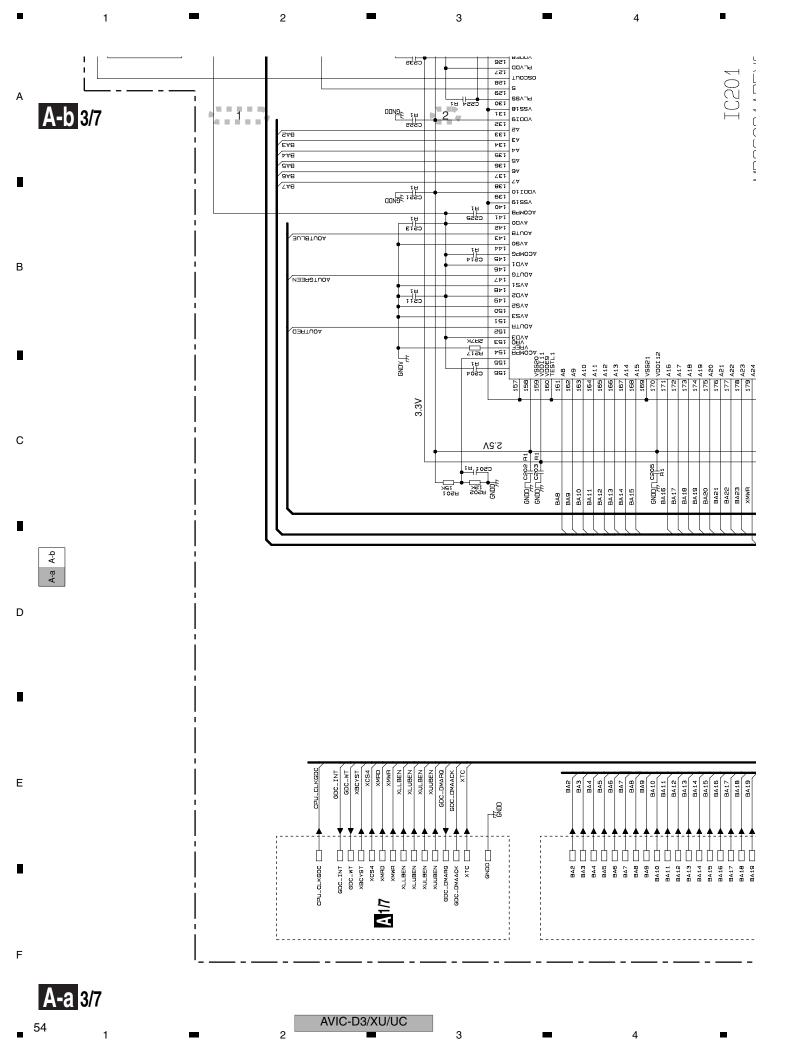


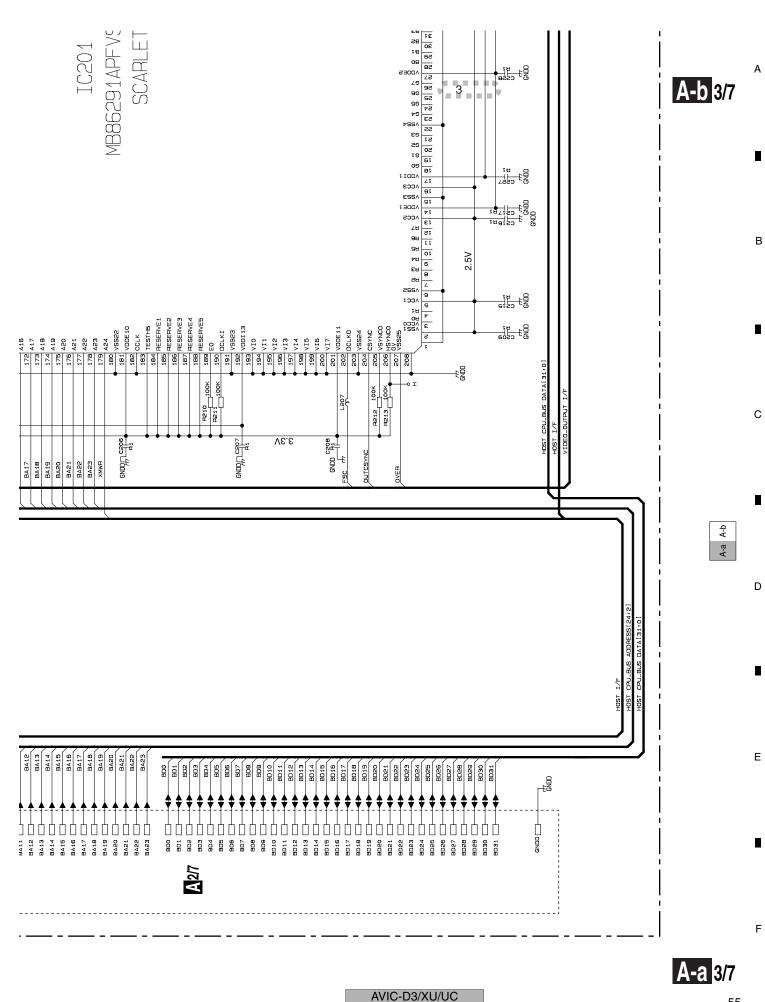
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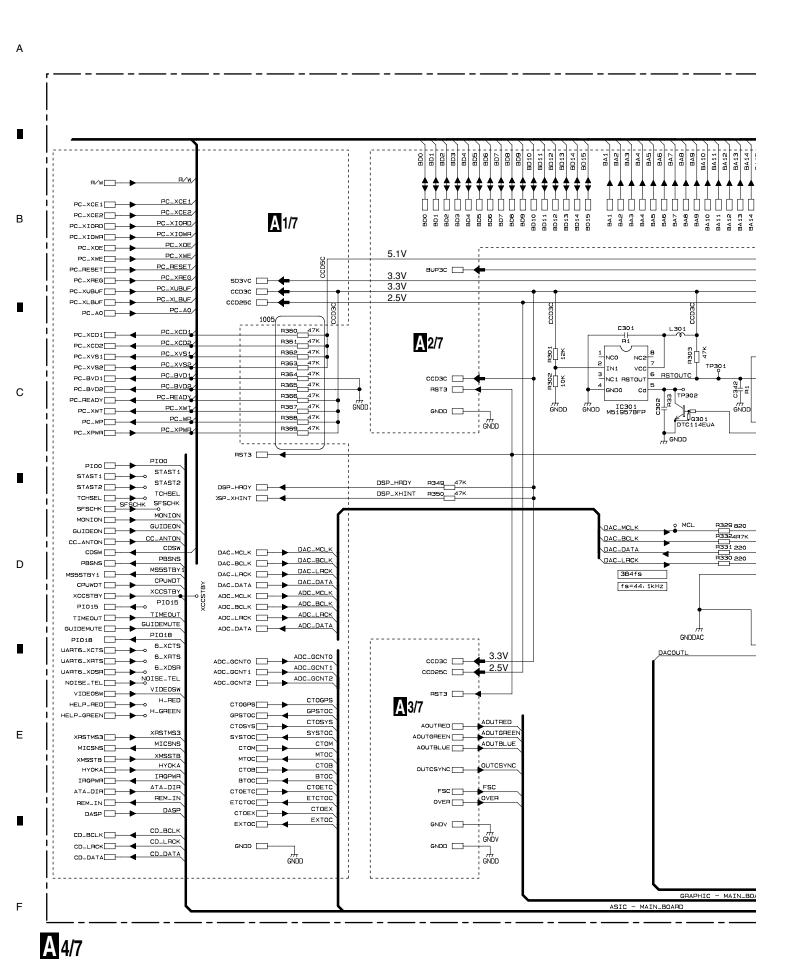
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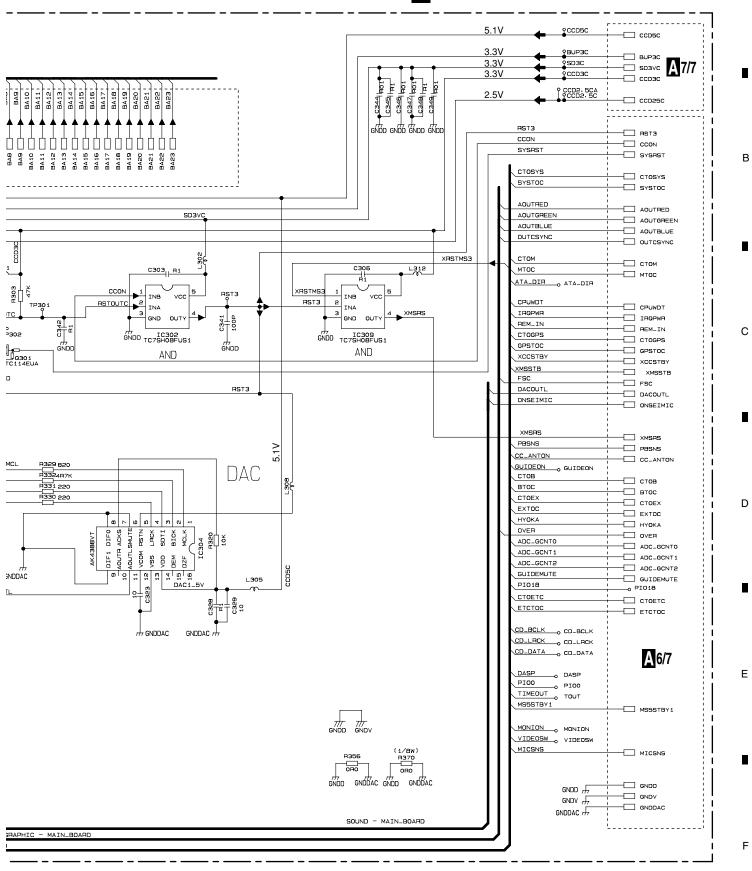






AVIC-D3/XU/UC

4/7 NAVI MOTHER UNIT (MAIN, CC I/F)



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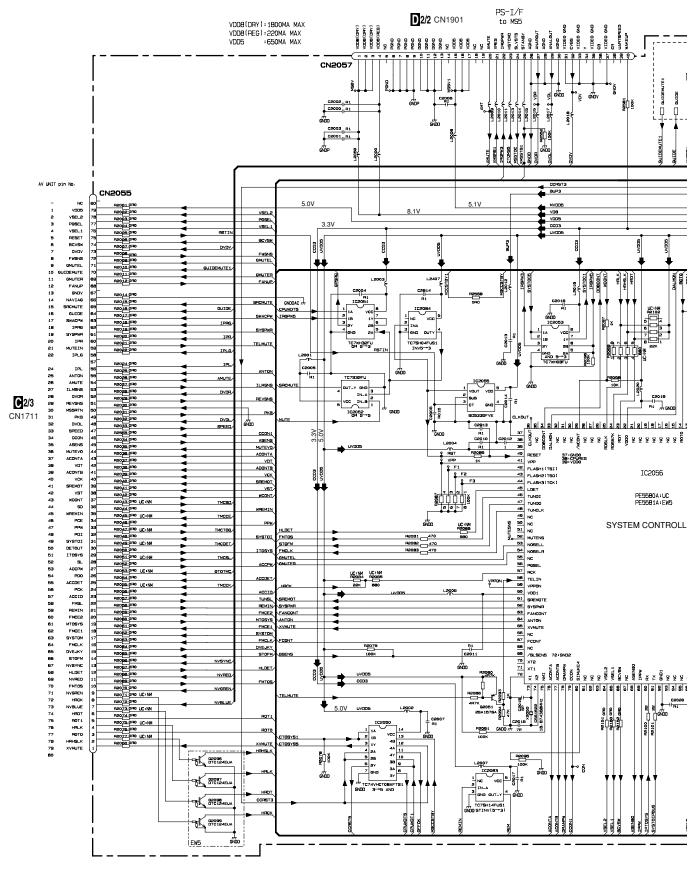
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AVIC-D3/XU/UC

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3.7 NAVI MOTHER UNIT (SYSTEM uCOM)(GUIDE PAGE)

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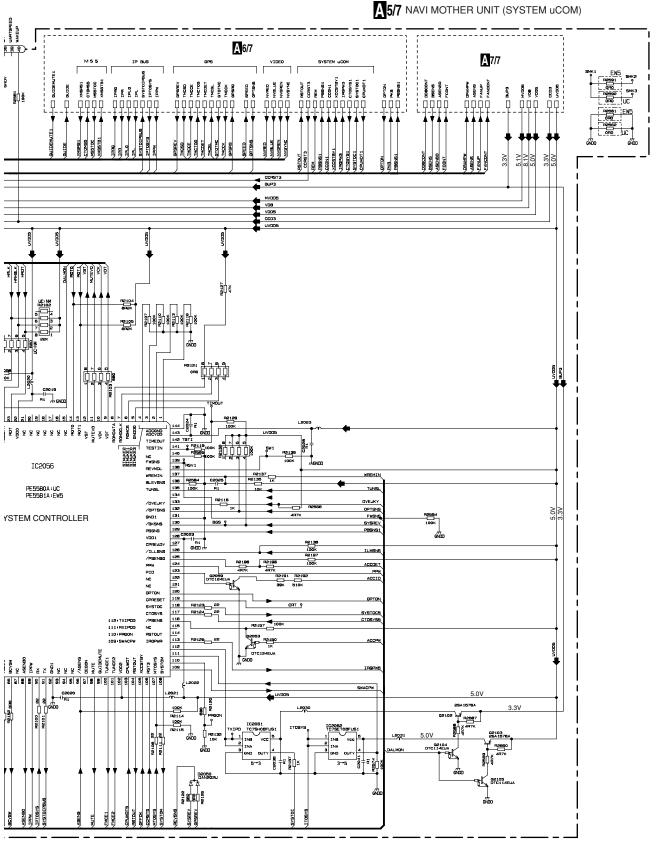
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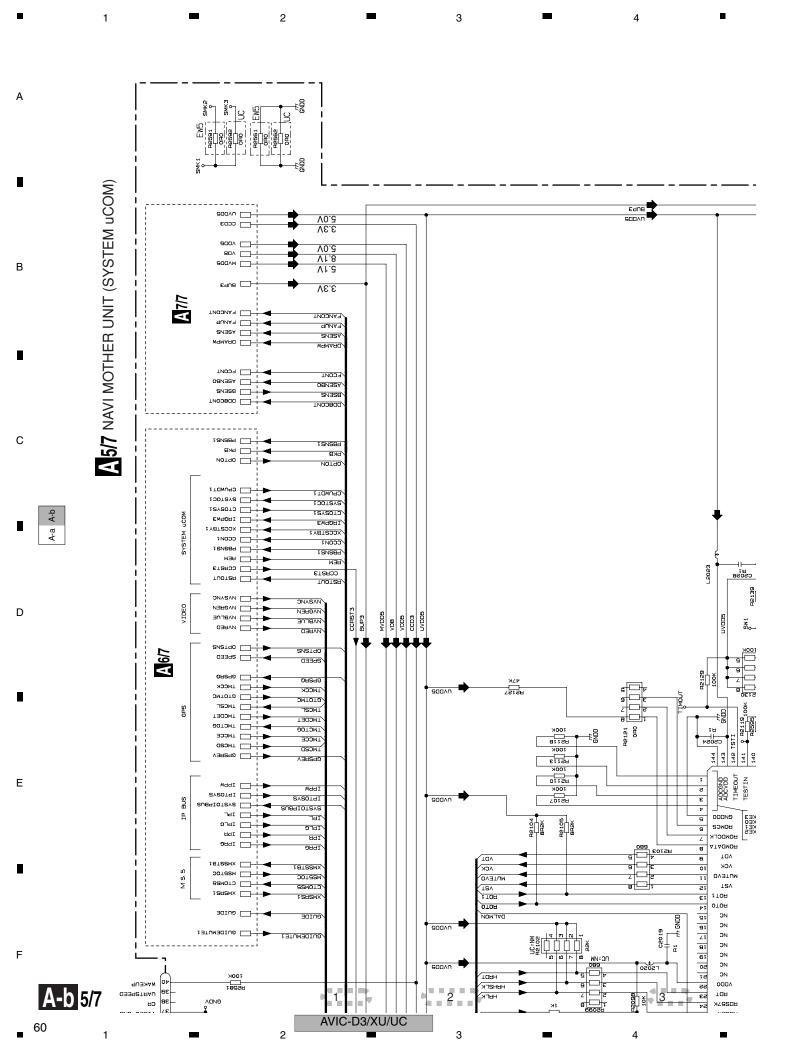
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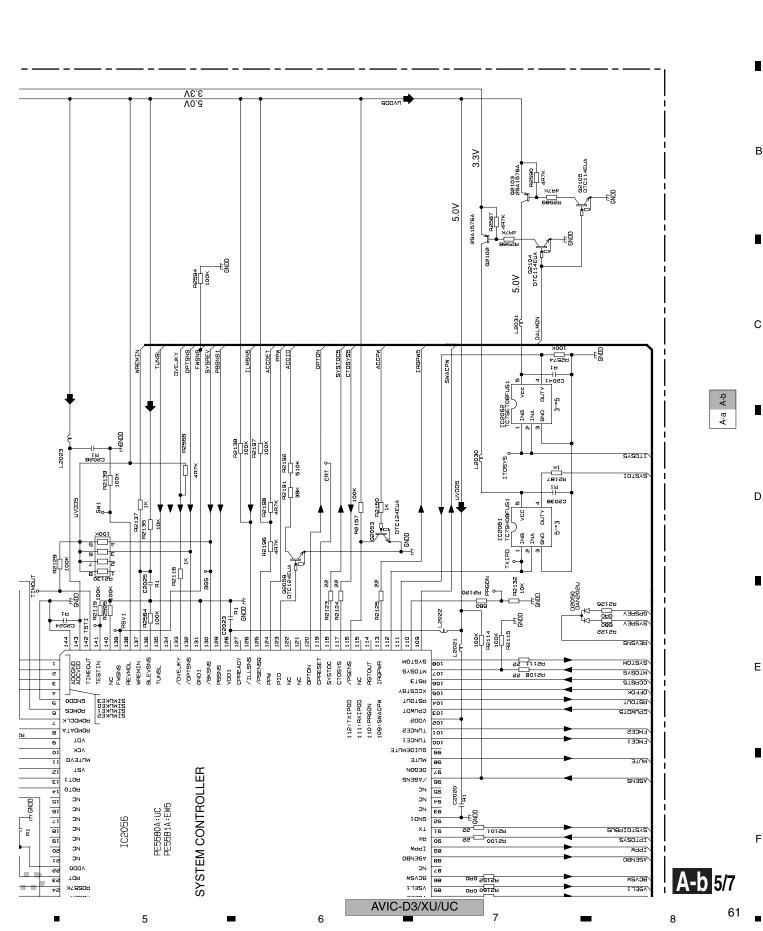
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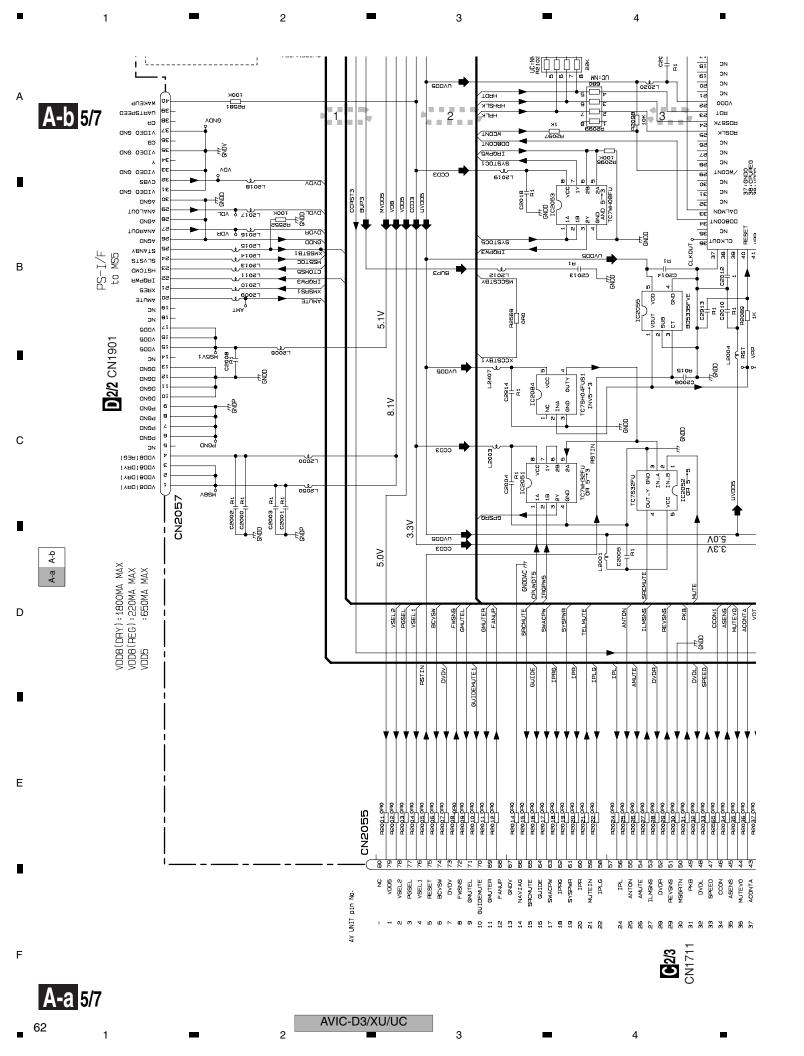
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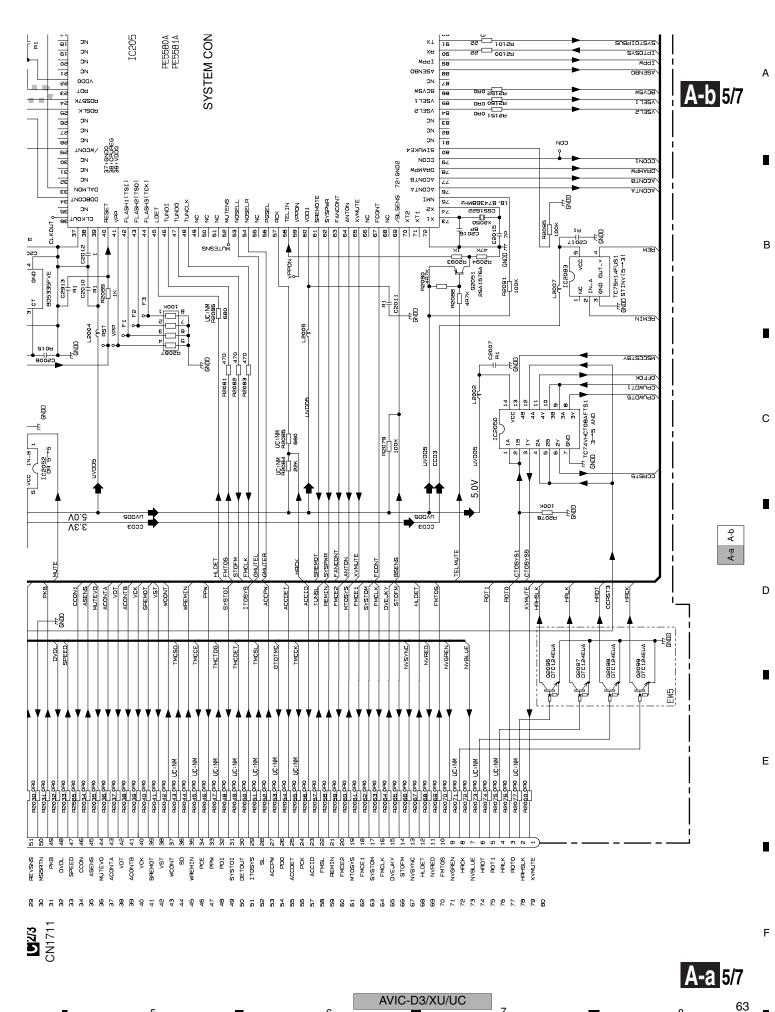
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3.8 NAVI MOTHER UNIT (I/F)(GUIDE PAGE)

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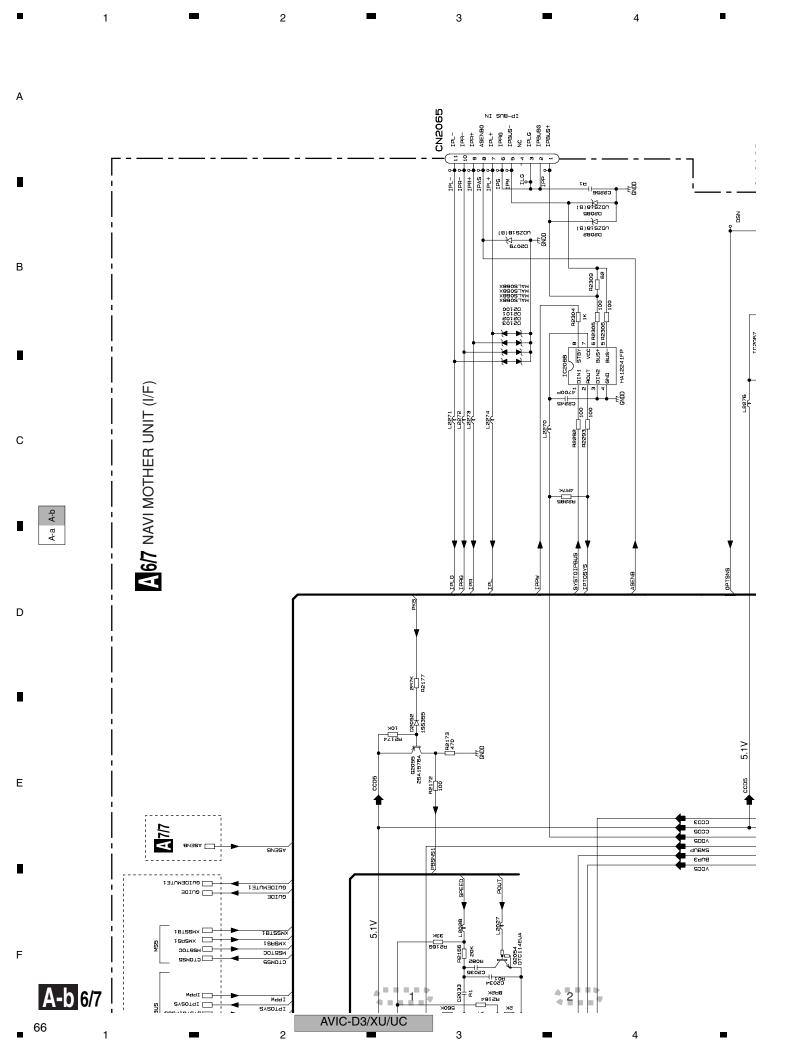
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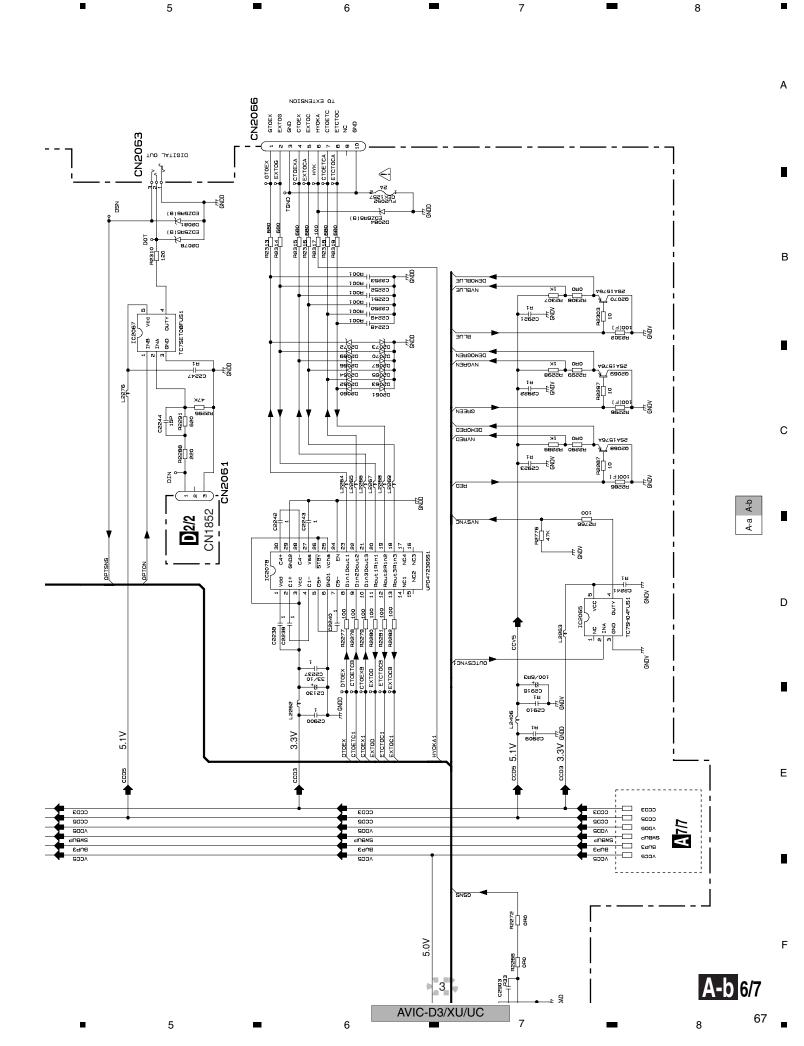
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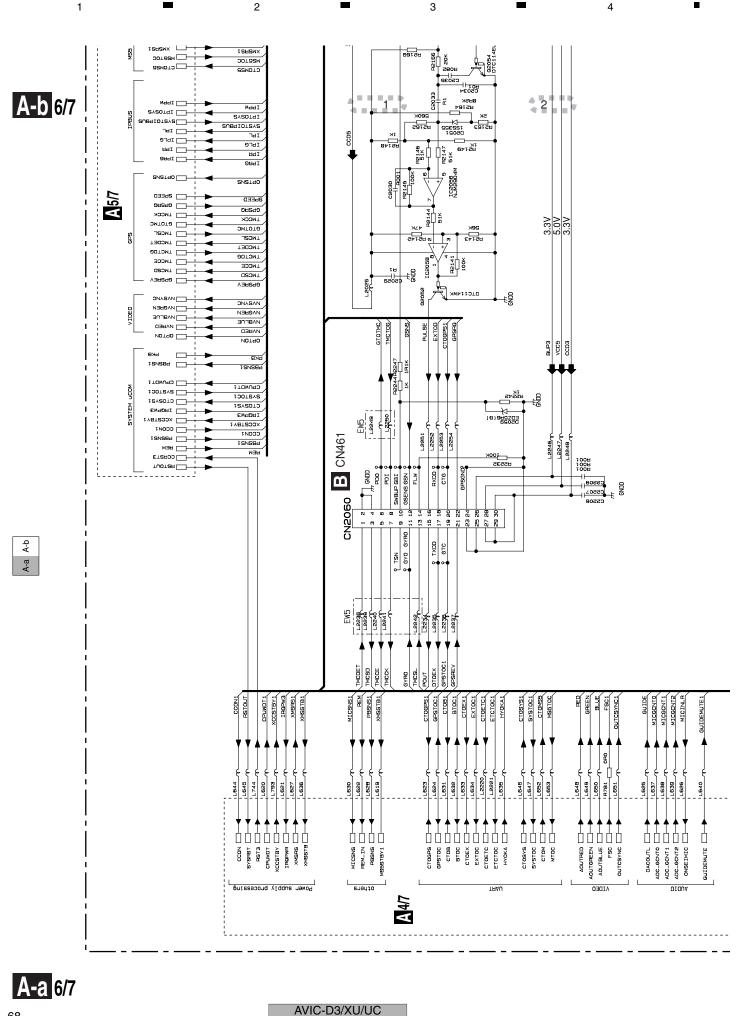
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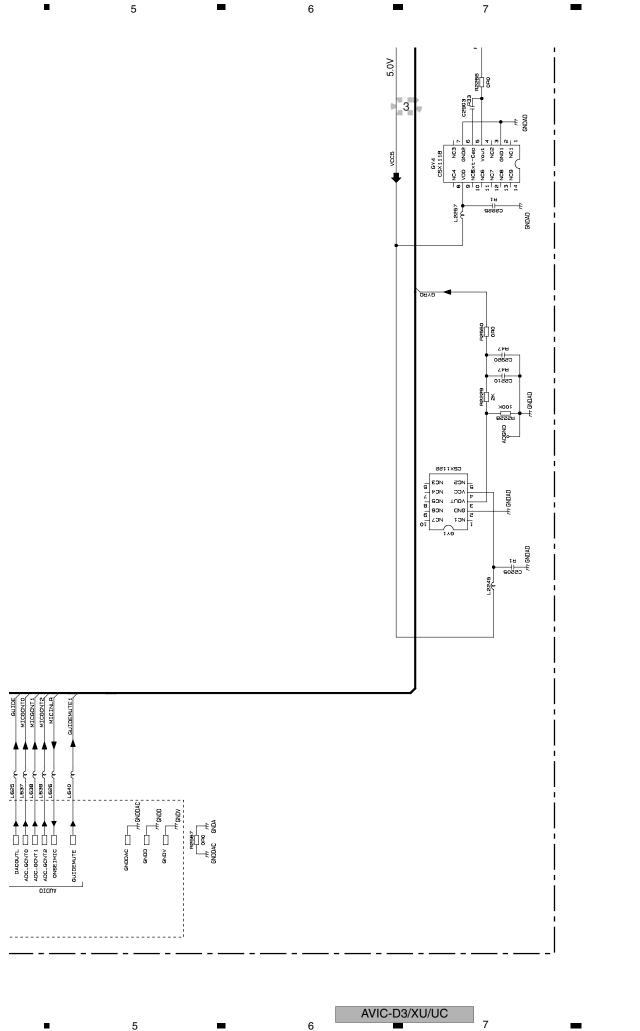




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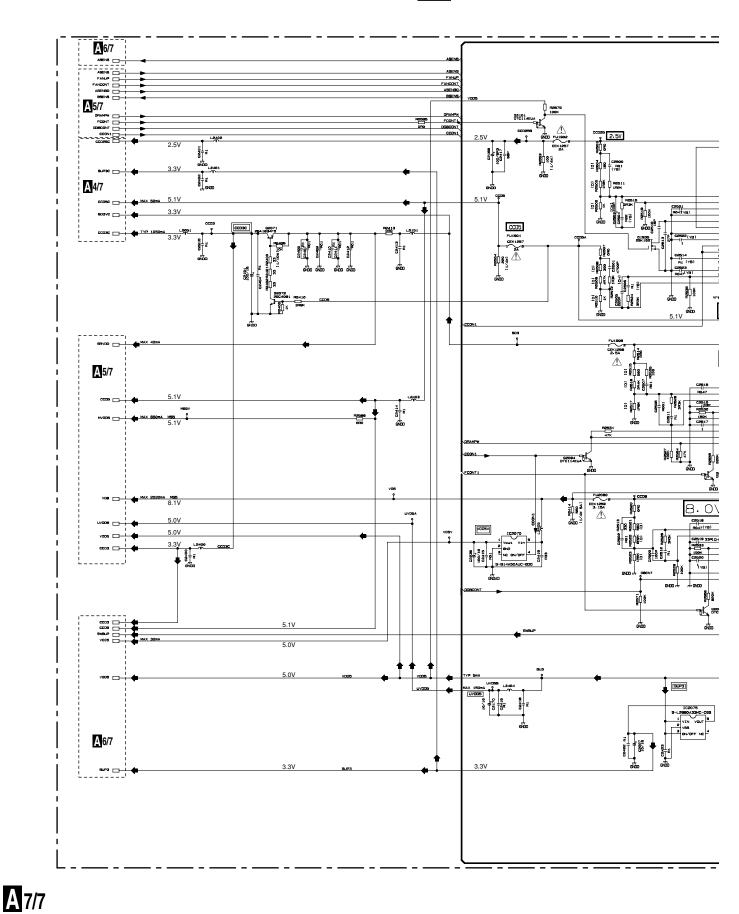
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3.9 NAVI MOTHER UNIT (PS)(GUIDE PAGE)

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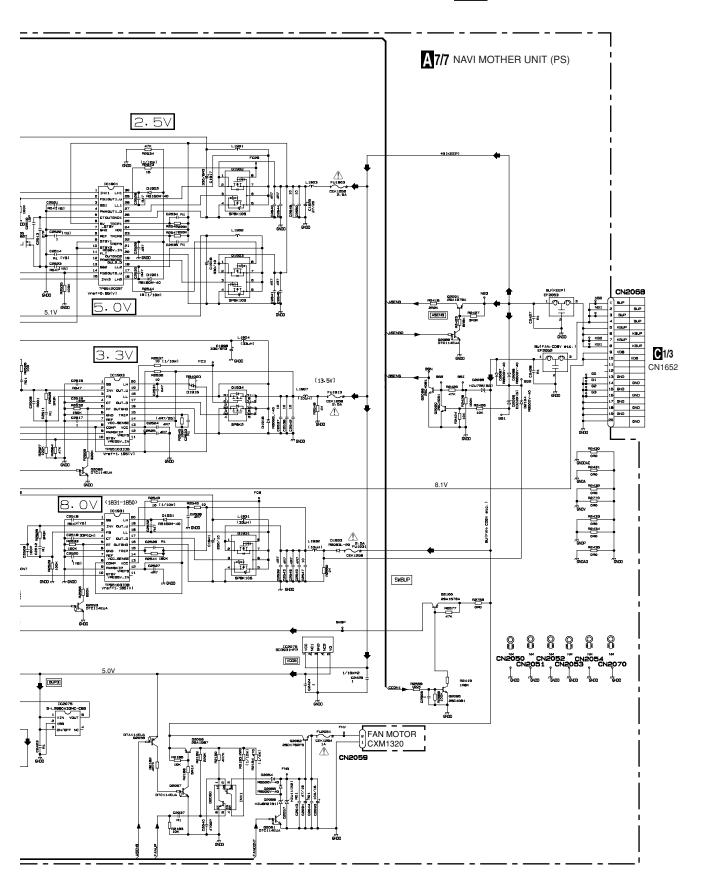
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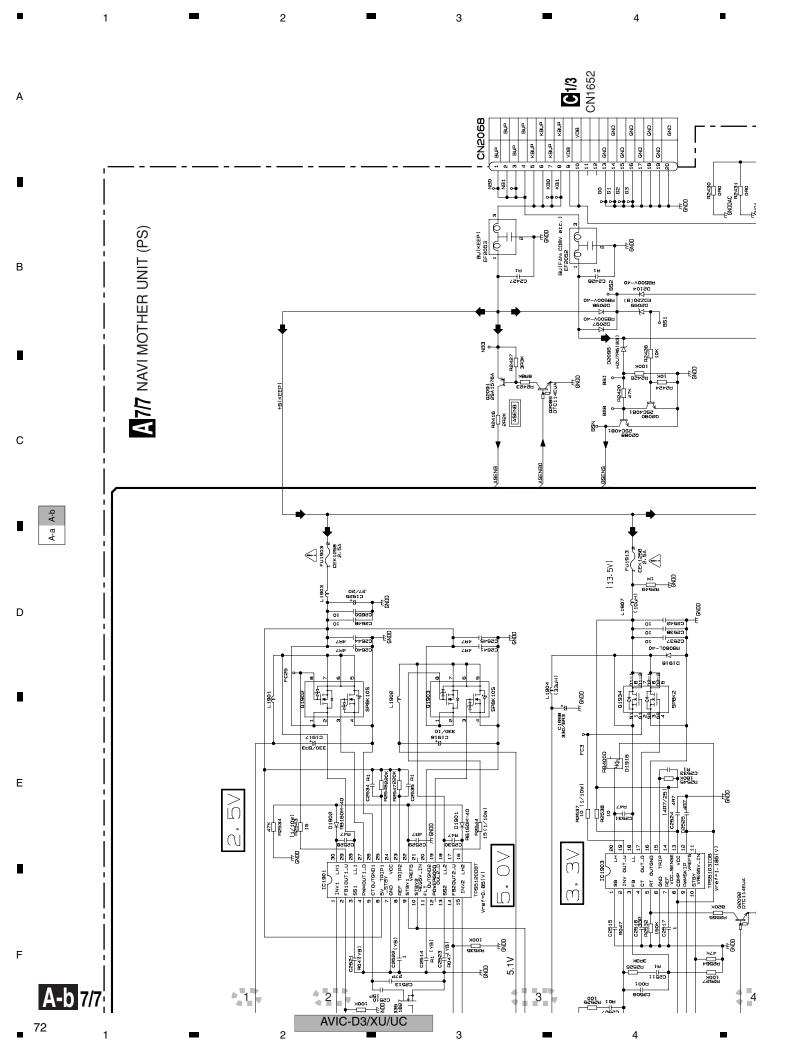
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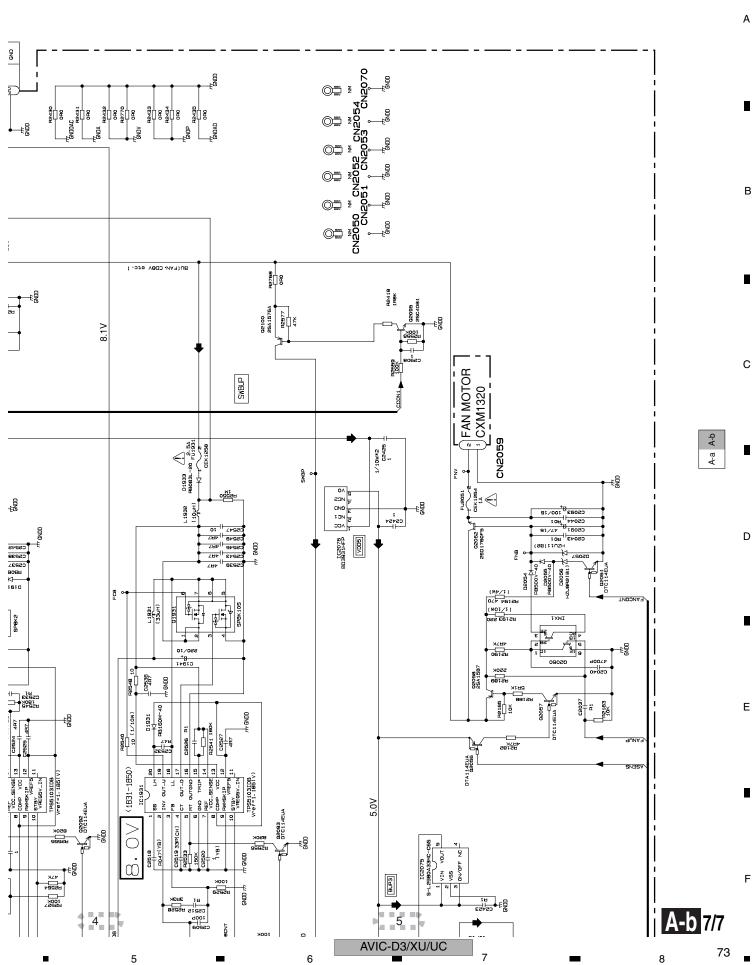
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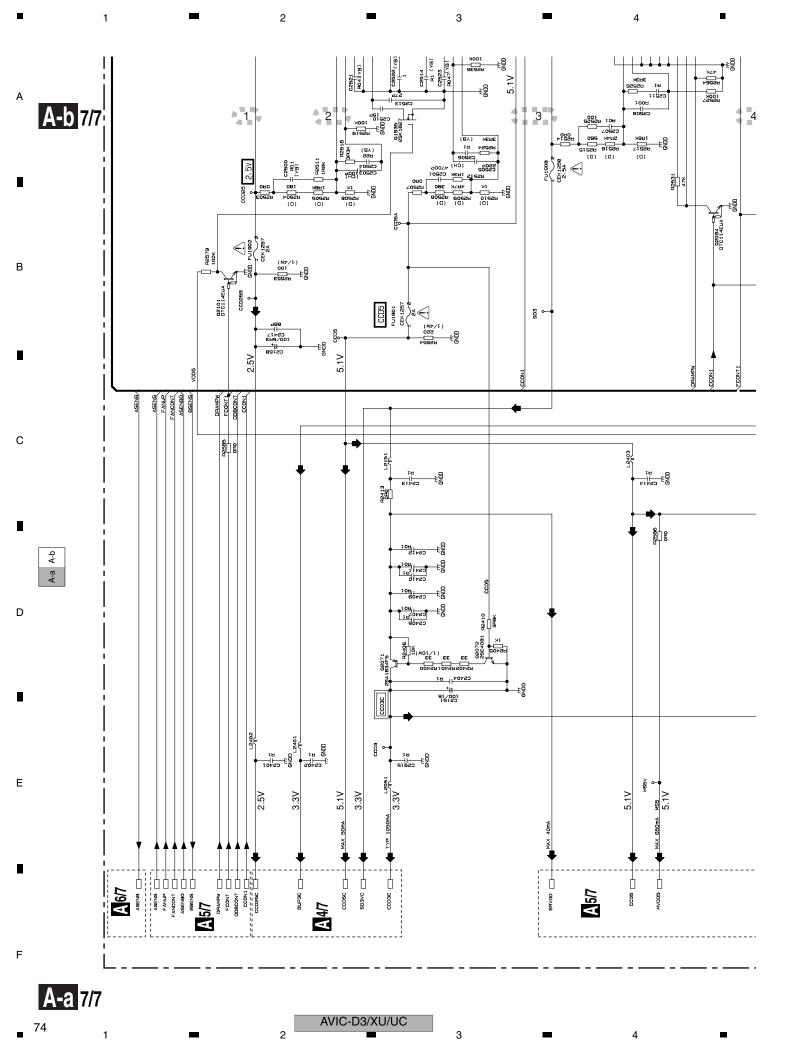


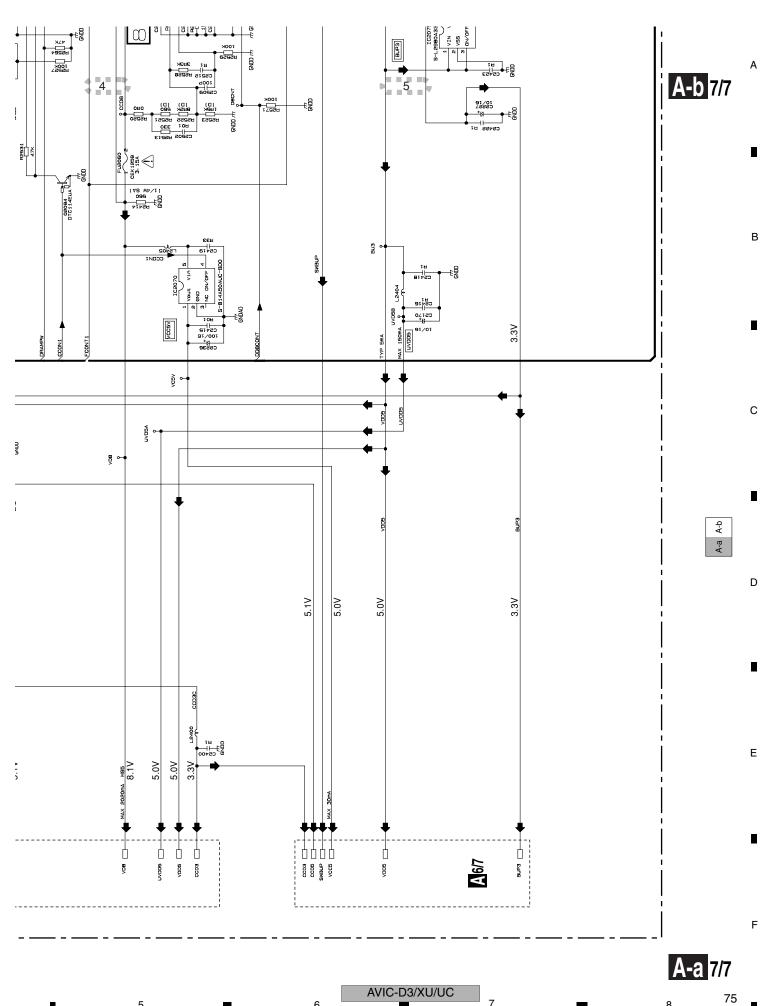


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B GPS UNIT D[13] D[5] D[5] D[12] A[18] A[8] A[7] A[6] A[5] A[4] A[3] DRAGON 10801 PD3380A į A[10] A[11] A[12] A[13] | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 Al 14 Al 15 Al 16 A[17] A [18 C509 R1 FŢC **\$**04 AXD AXD GPSTOC 7513 10K SHOODA GNOODA EWS 8482 22K 3 6 P479 2R2K DSTB 對藥藥藥 EW5 ADS DECODER

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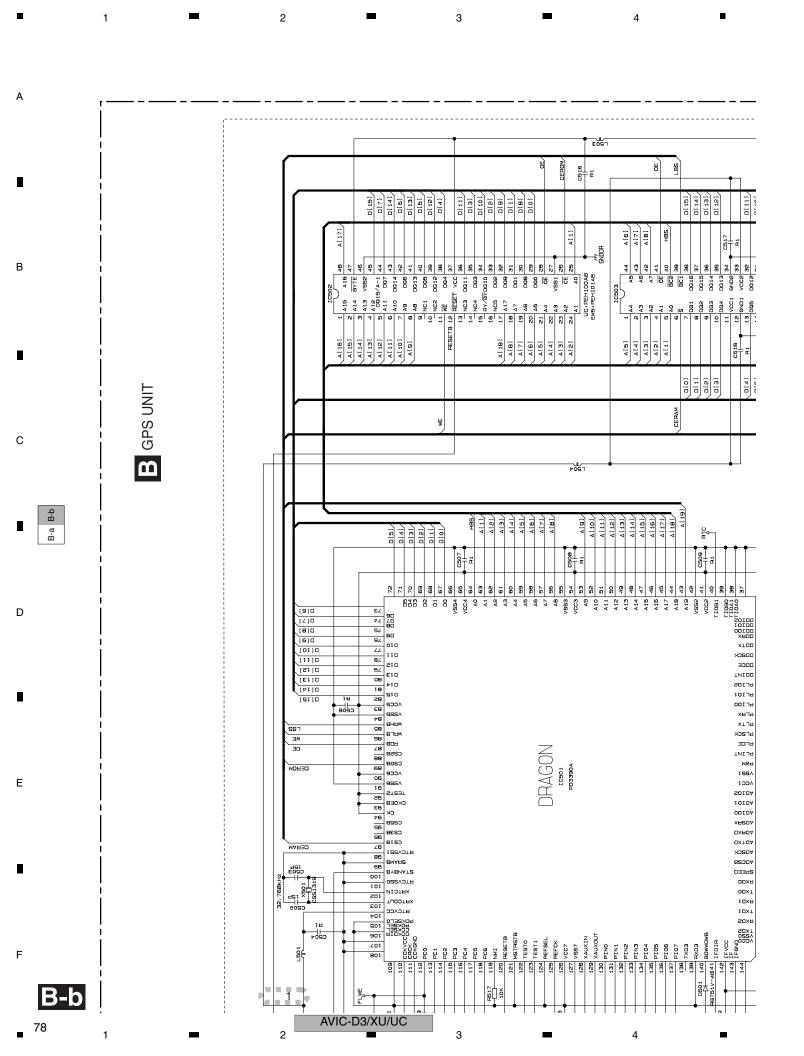
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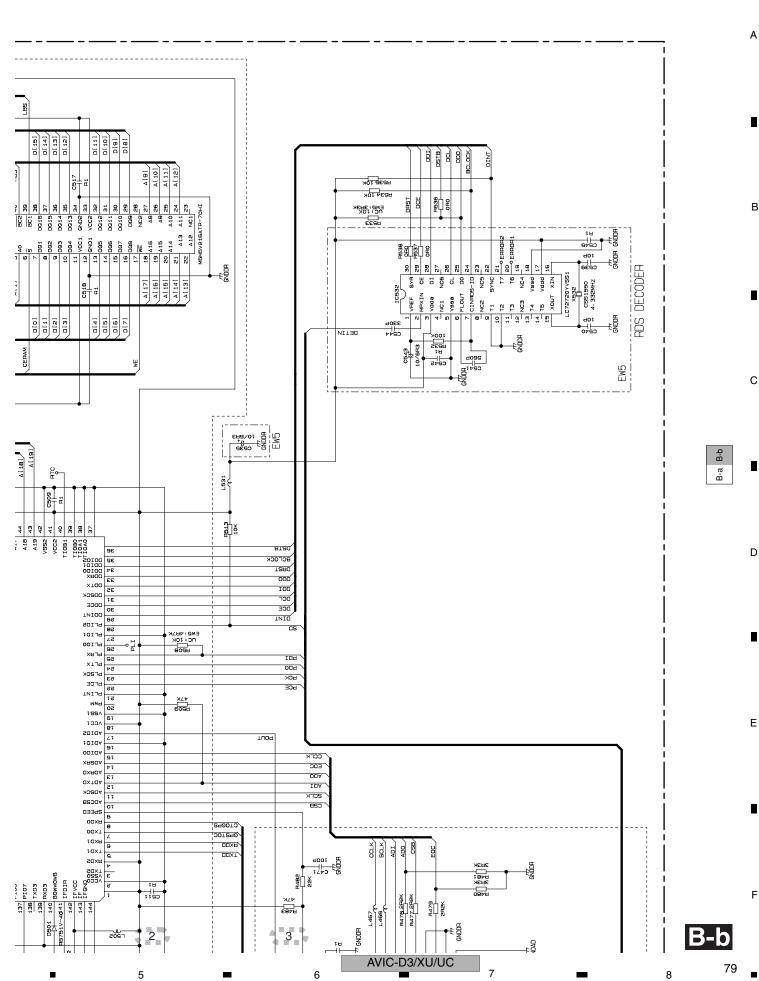
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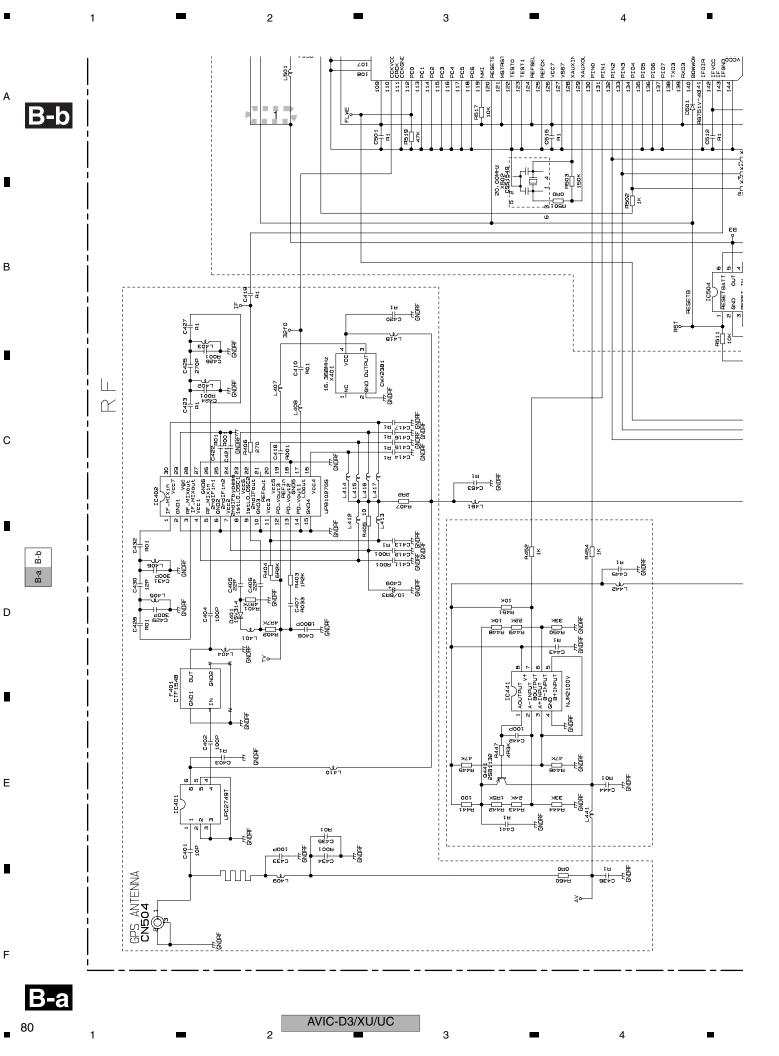
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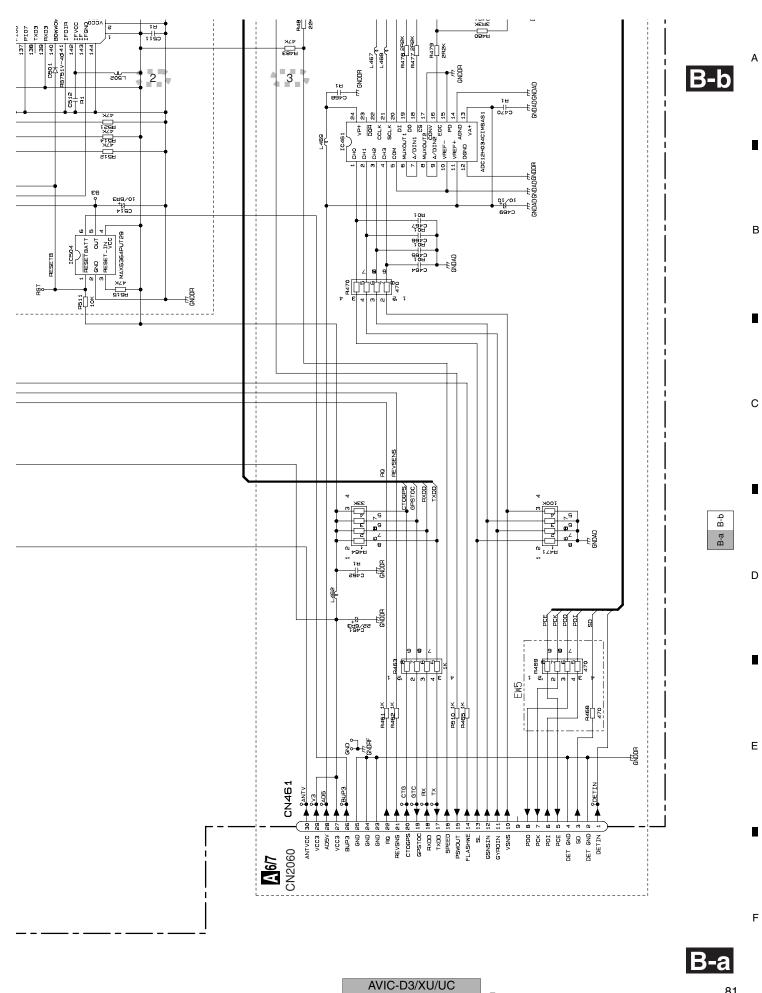


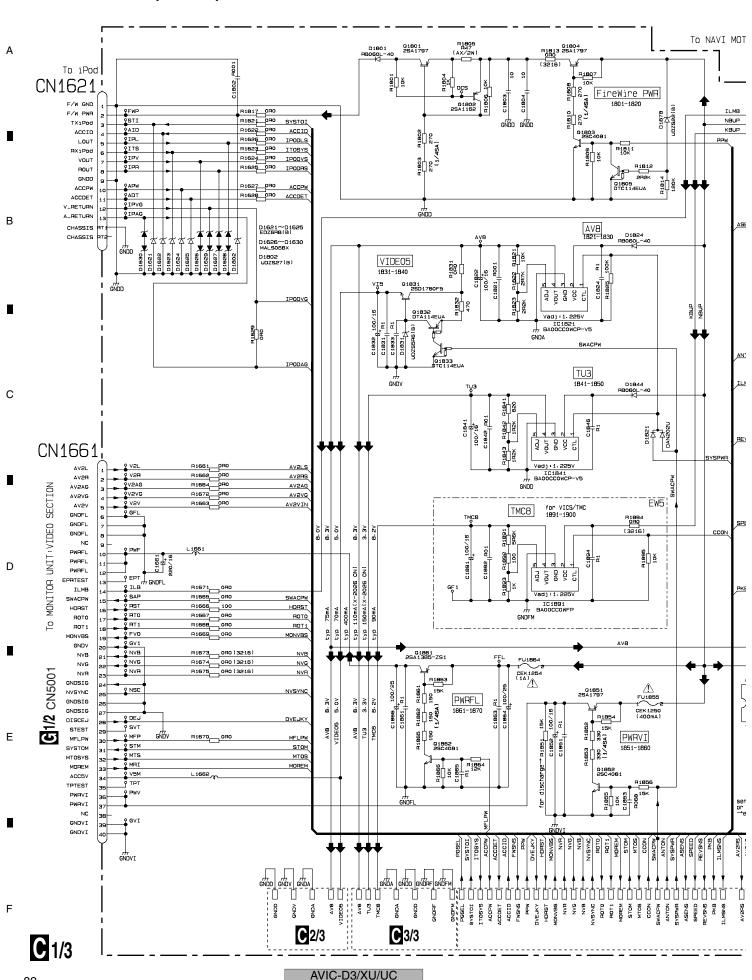


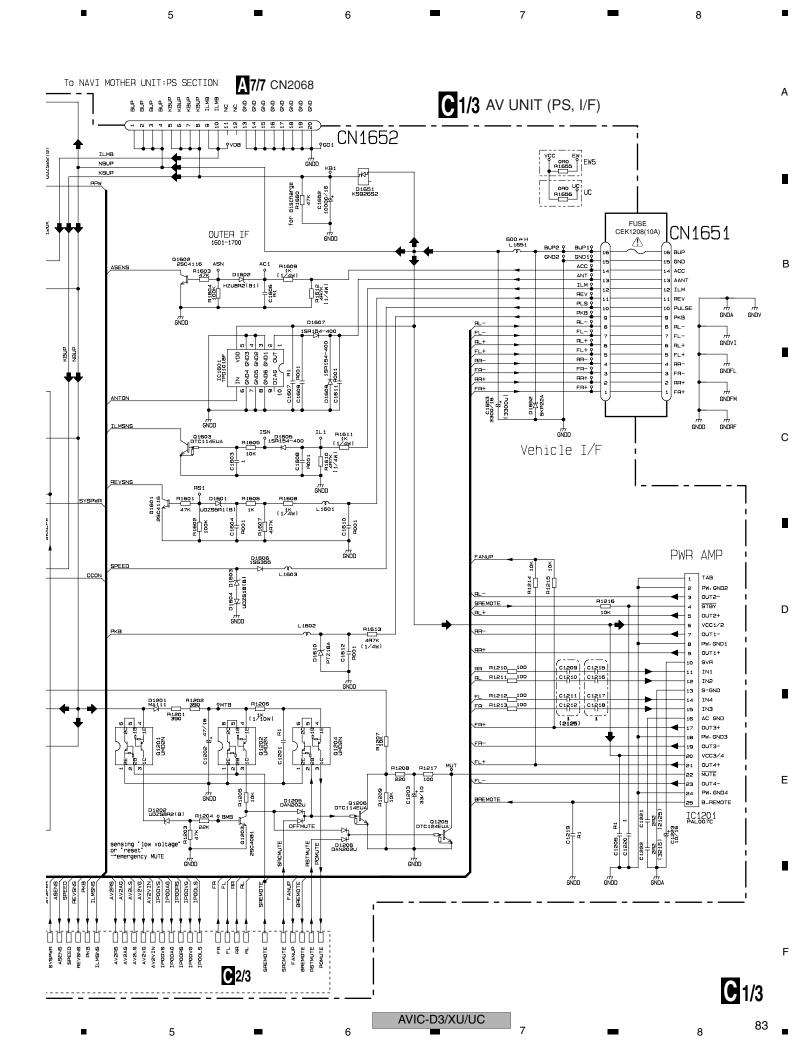
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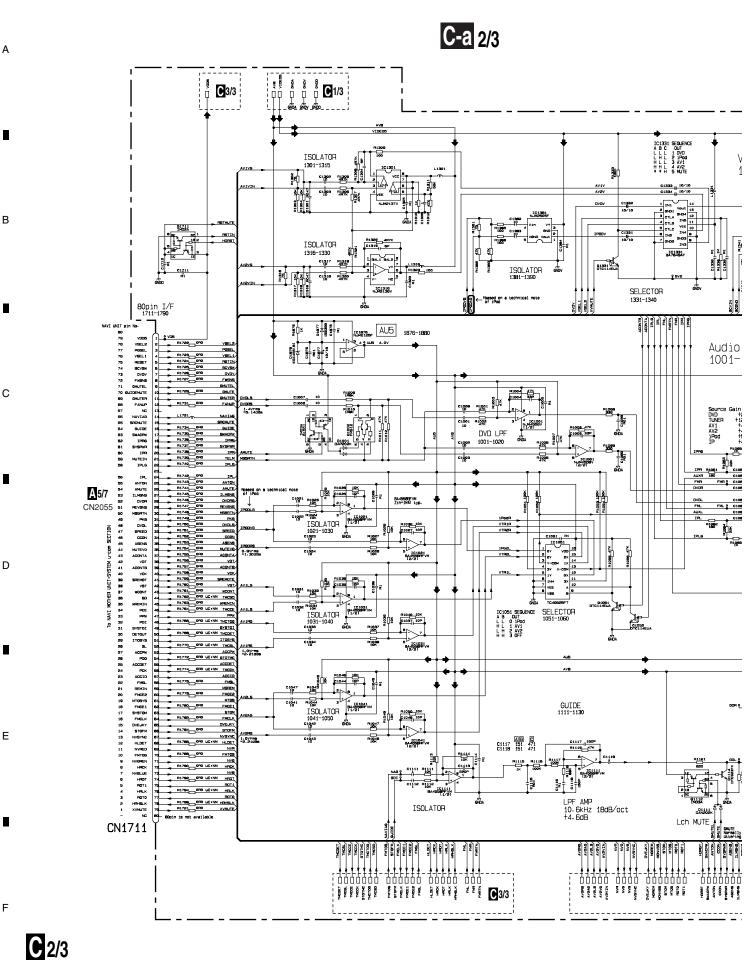








3.12 AV UNIT (A/V)(GUIDE PAGE)



AVIC-D3/XU/UC

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C 2/3 AV UNIT (A/V) SEQUENCE OUT 1 DVD 2 1POd 3 AV1 4 AV2 5 MUTE 75Ω DRIVER 1361-1370 Video 1301-1400 ISOLATOR 1341-1350 _1 EDZB1709 EDZB16(8) SELECTOR 600v 1351-1360 **新斯斯** 計模 Audio 1001-1200 AV CONNECTOR Preout Mute 1091-1110 CN1701 CAPTAIN4 1061-1090 81109 BEK 81100 BEK 470 C1100 10 16 B20 CON 1300 CON Δ EF1710 勒 WIRED REMOTE(Black) GUIDE MIX 1131-1140 iCN1721 Lch MUTE incovs incovs incovs 444 Brace Annual Control of the Control 2, 2017 2, 201 **C** 1/3

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AVIC-D3/XU/UC 7

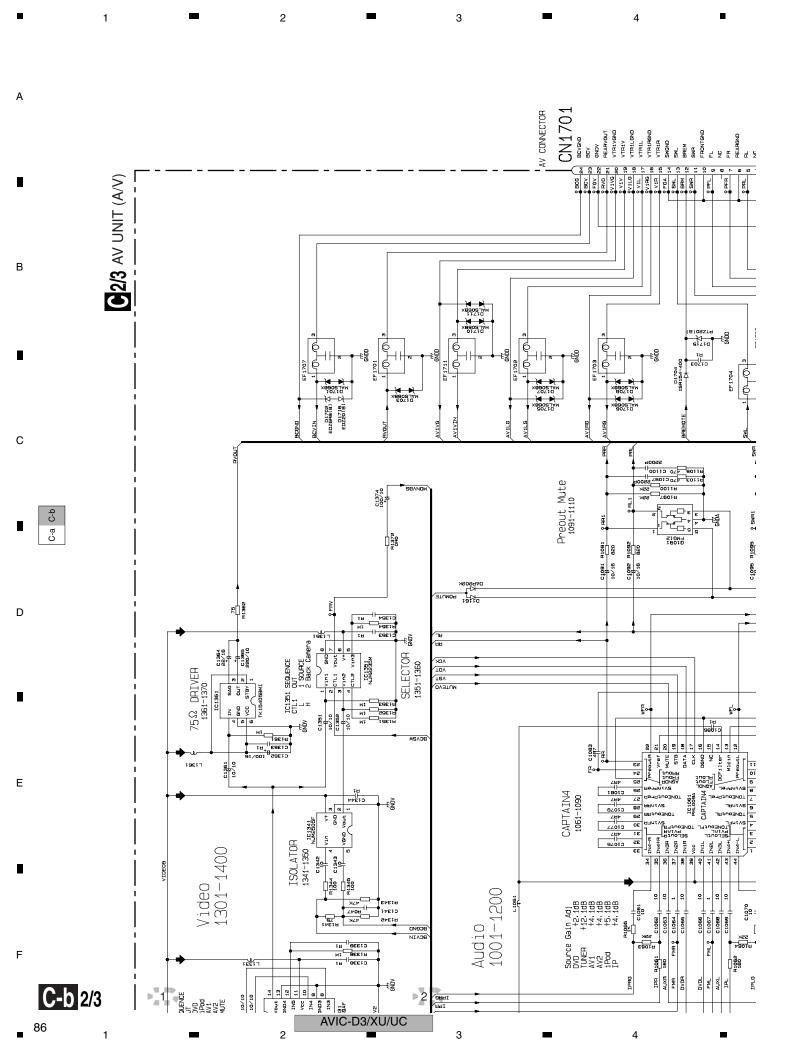
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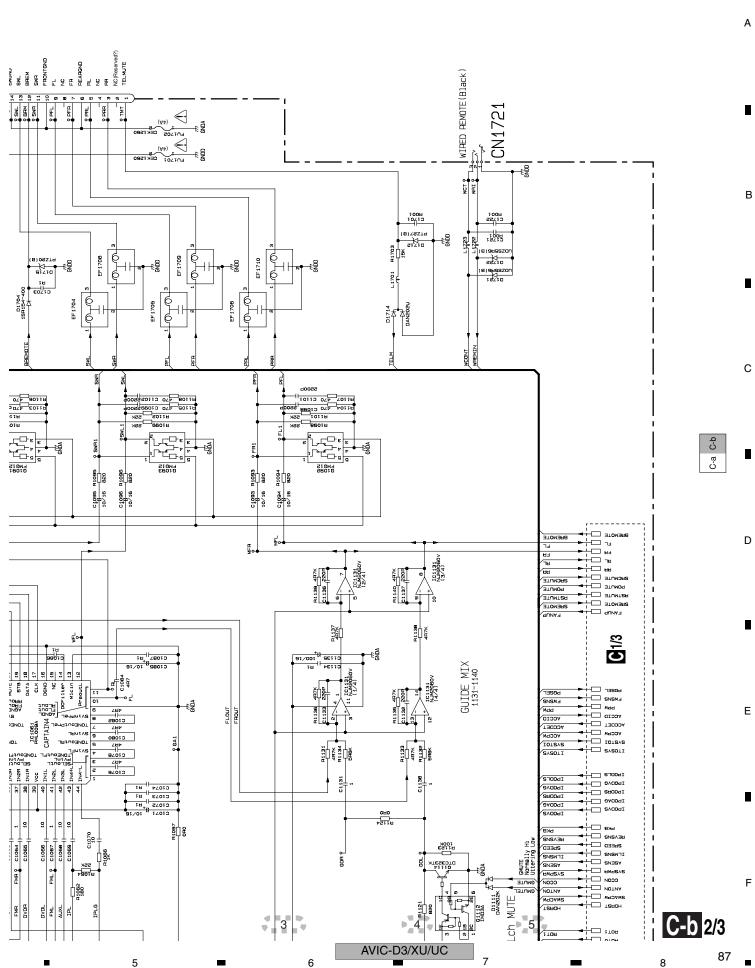
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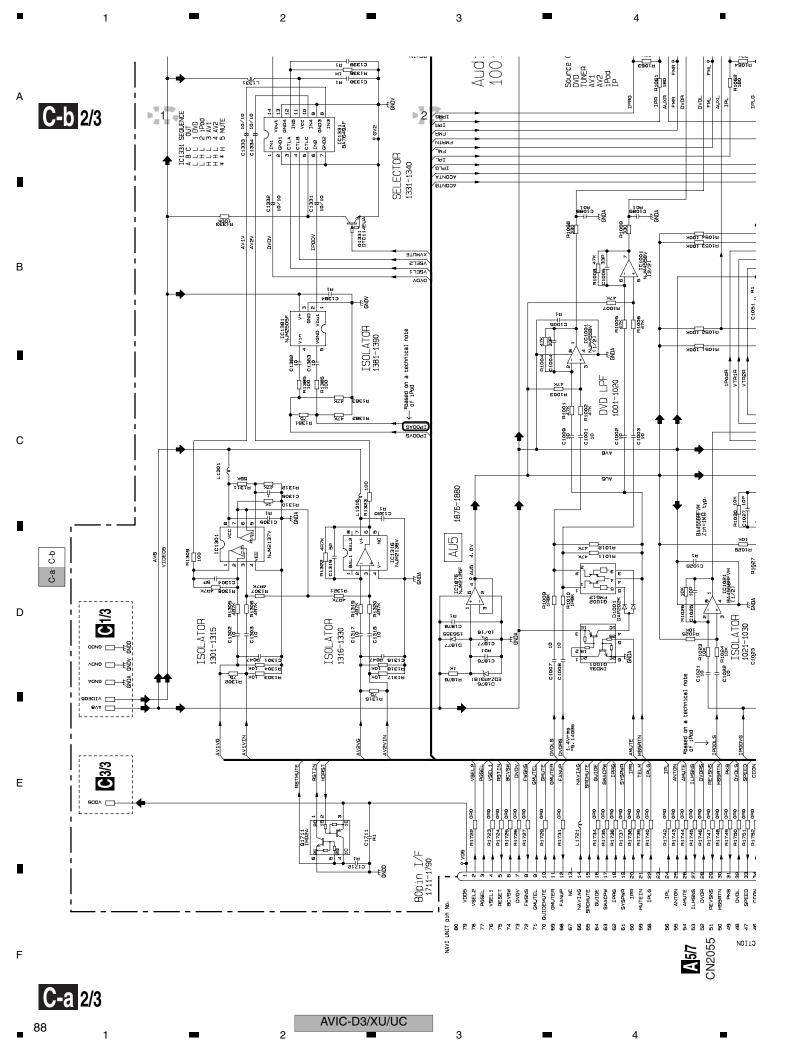
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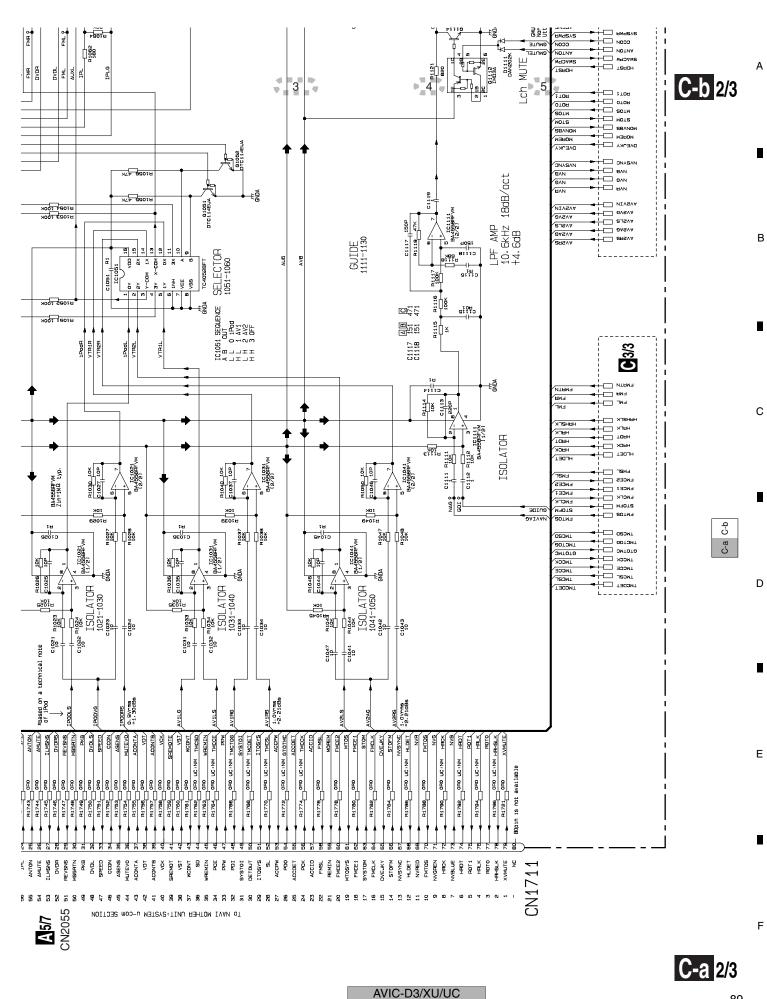
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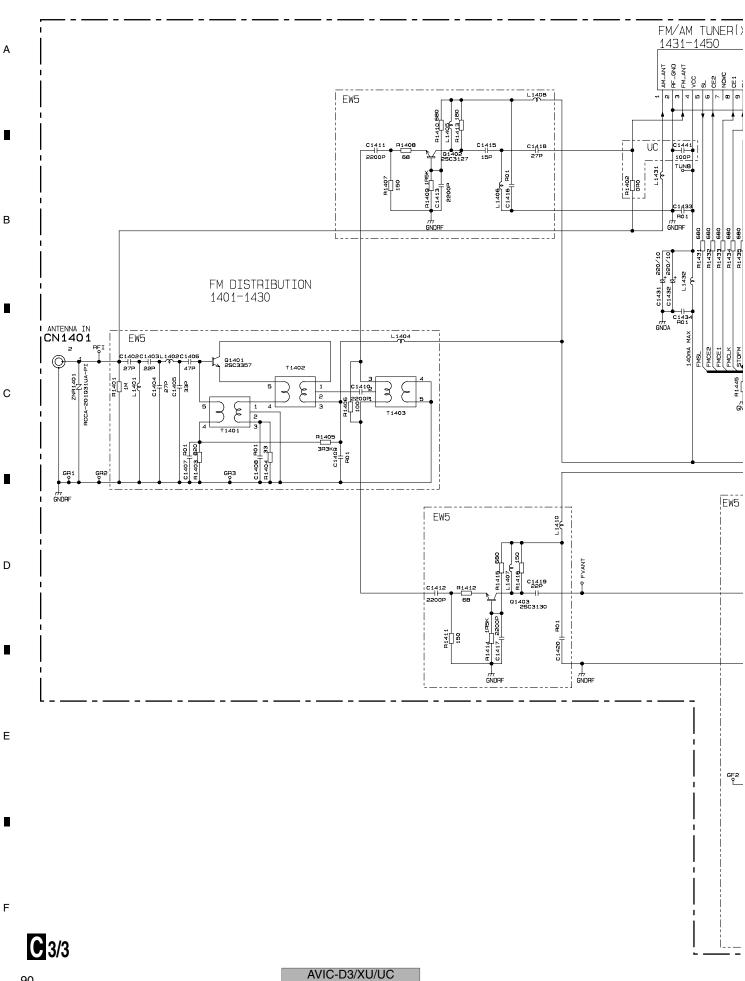
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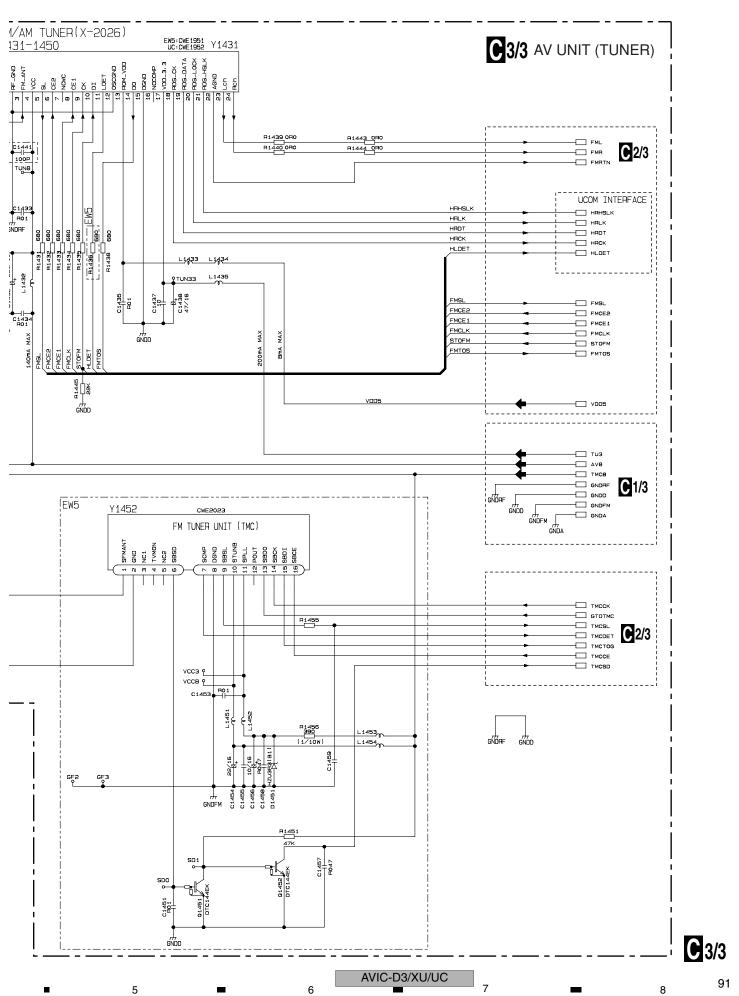
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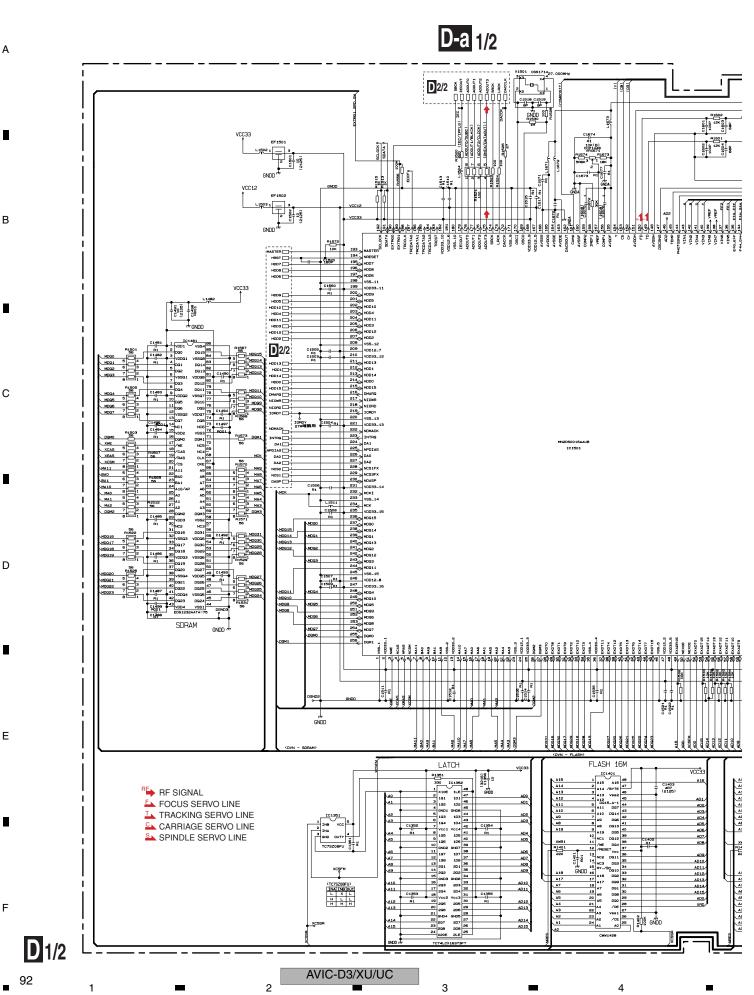
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3.14 DVD CORE UNIT (1/2)(GUIDE PAGE)



D-b 1/2 **D 1/2** DVD CORE UNIT (1/2) GNDA R1602 VIDEO BUFFER 98VDD VCC39 VCC18 9NDD 2/2 £108 D 2/2 C1616 1 (1608) VREF 1 1608) VREF В GNDV 0125 0125 0120 0120 GNDA PICKUP UNIT(SERVICE) С - CN1101 C1528 R1 D STEPPING MOTOR M2:CXM1364 3 SPINDLE MOTOR M3:CXM1362 00000 (3) (4) 1882 M1:CXC4912 Ε F FLASH 16M IC1402 LTDAC

SECOND

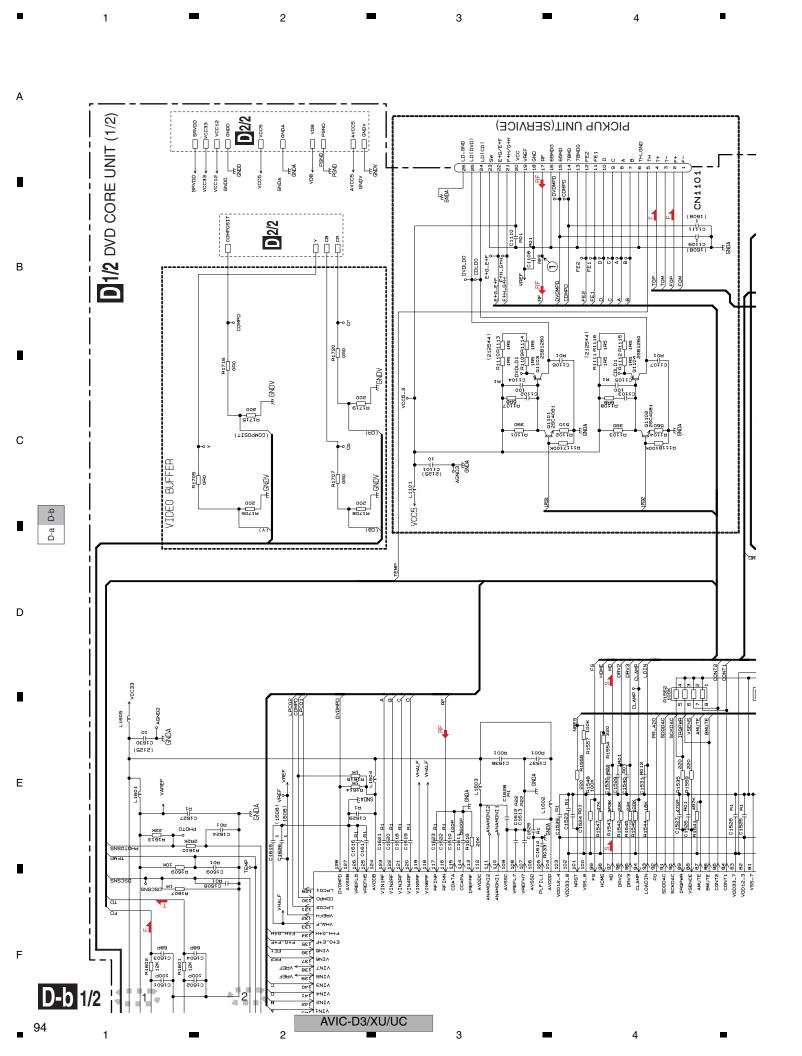
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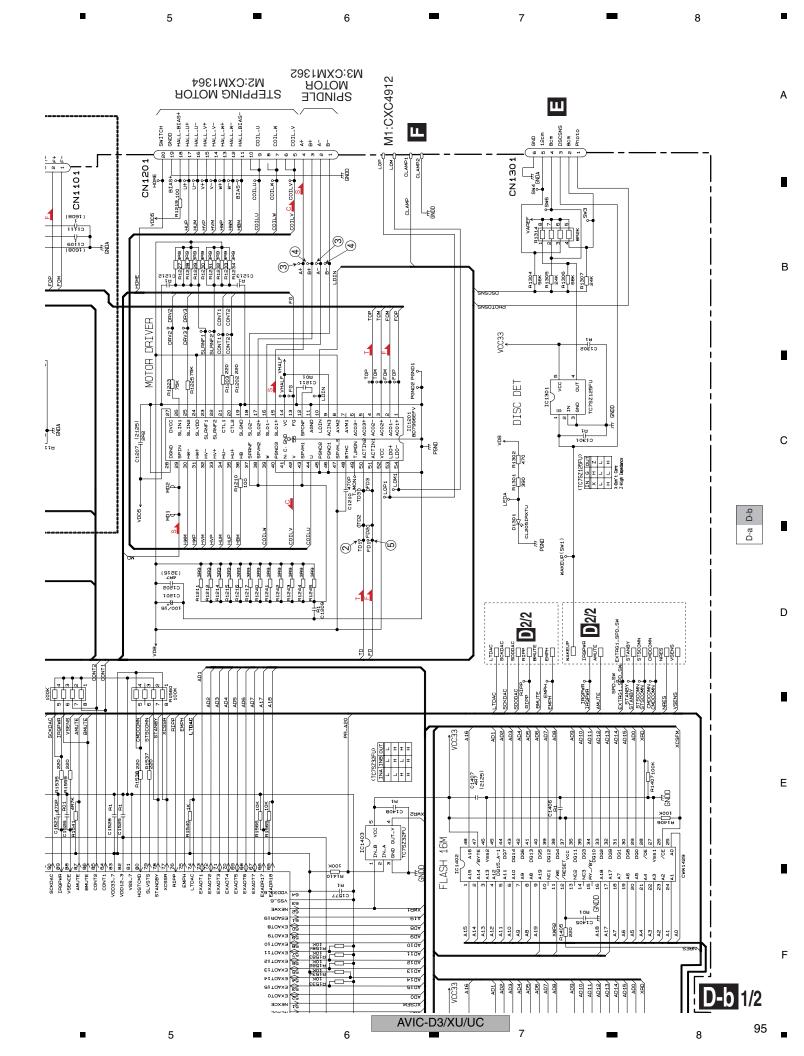
BRUTE

BRUT CN1301 SM4 777 SNDA 24K R1306 R1306 BBK E HAKEU **D** 2/2 D 1/2 AVIC-D3/XU/UC 93 5 6 8

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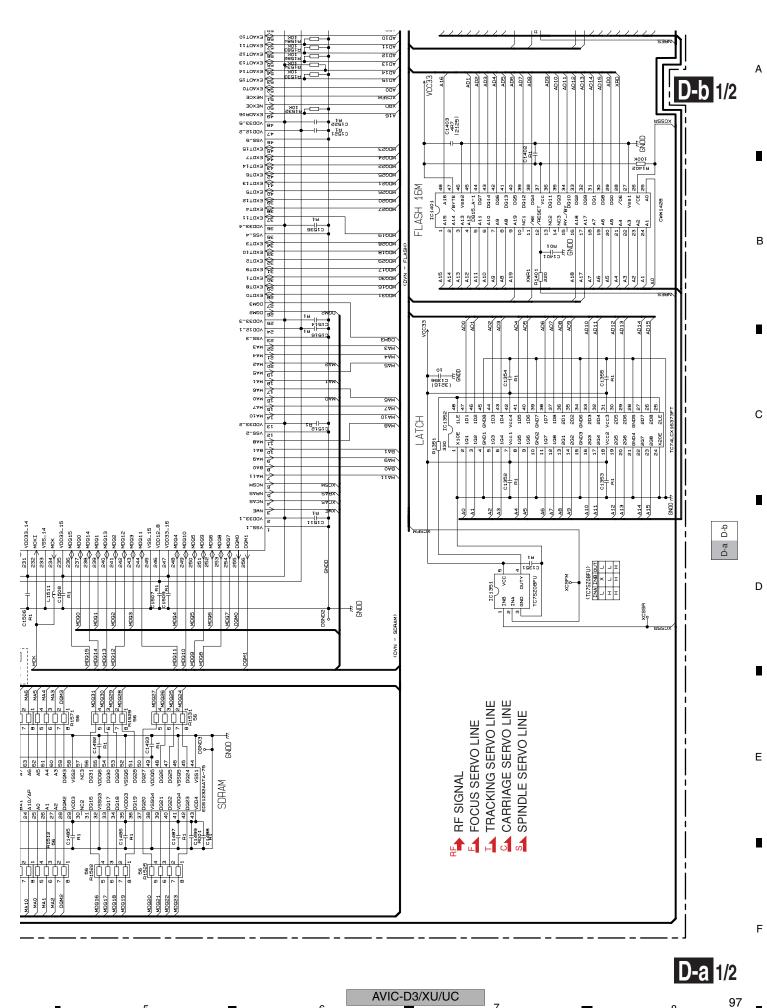
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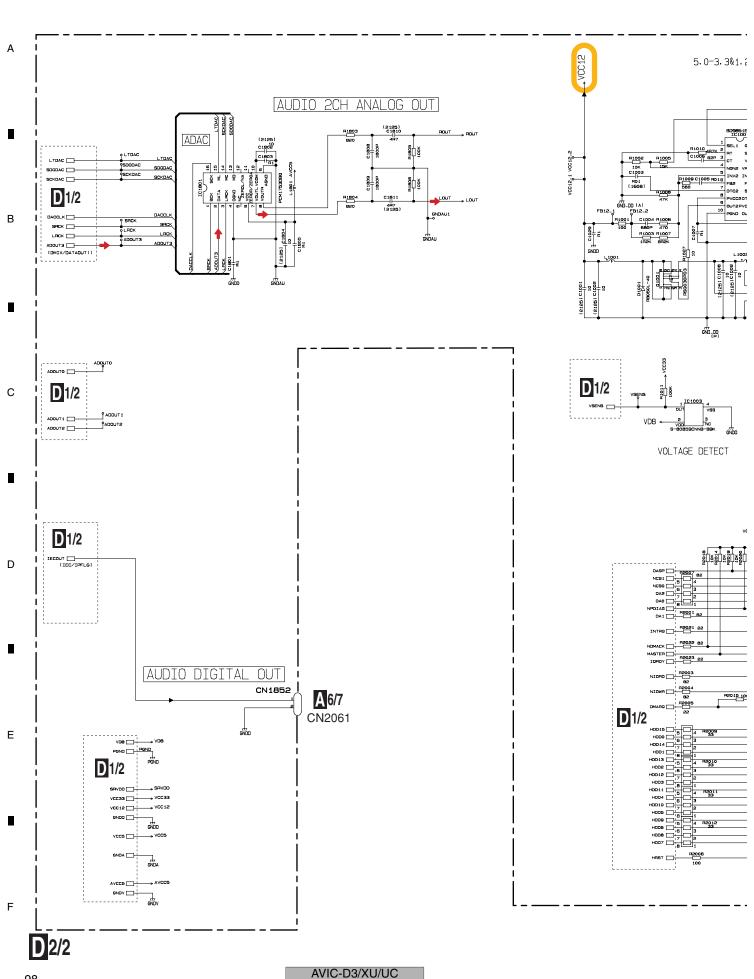


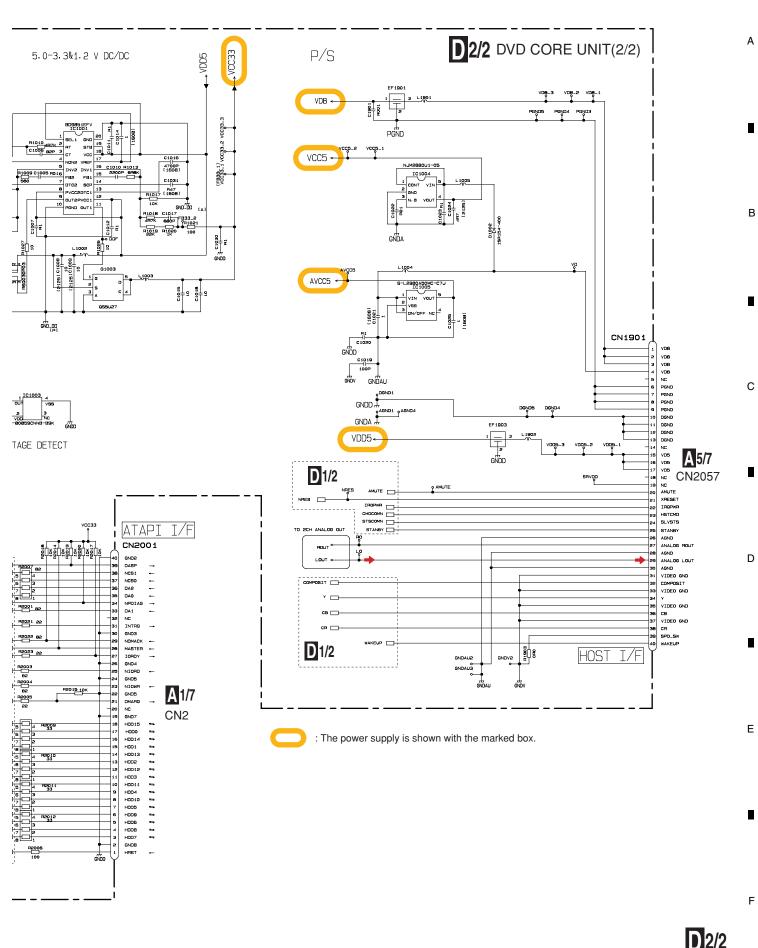




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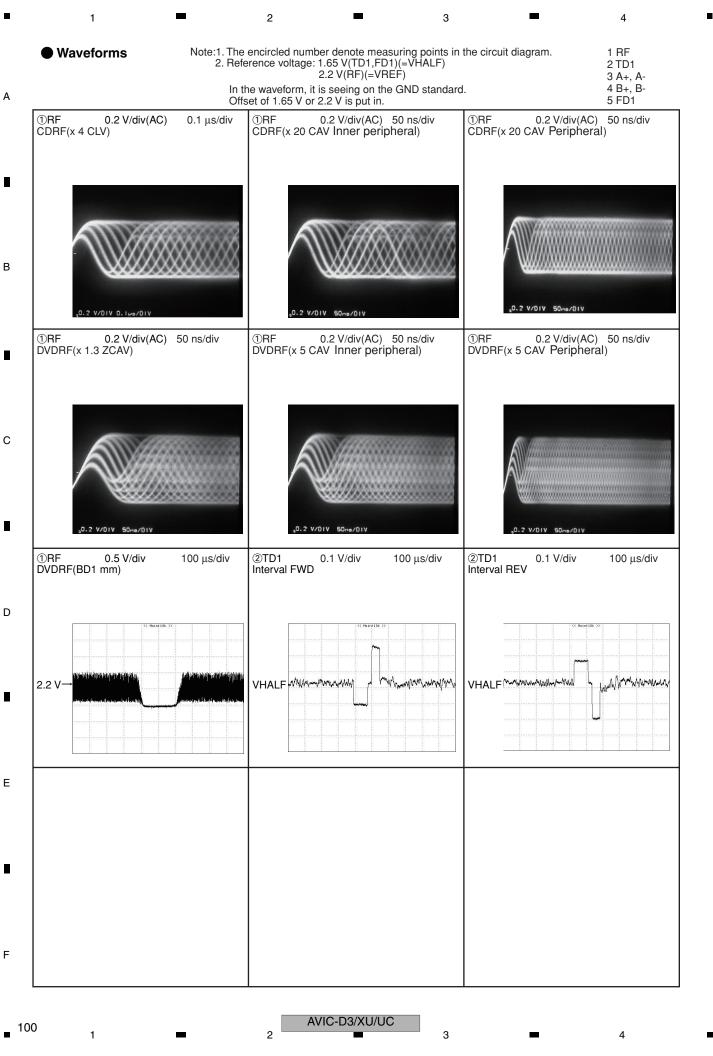


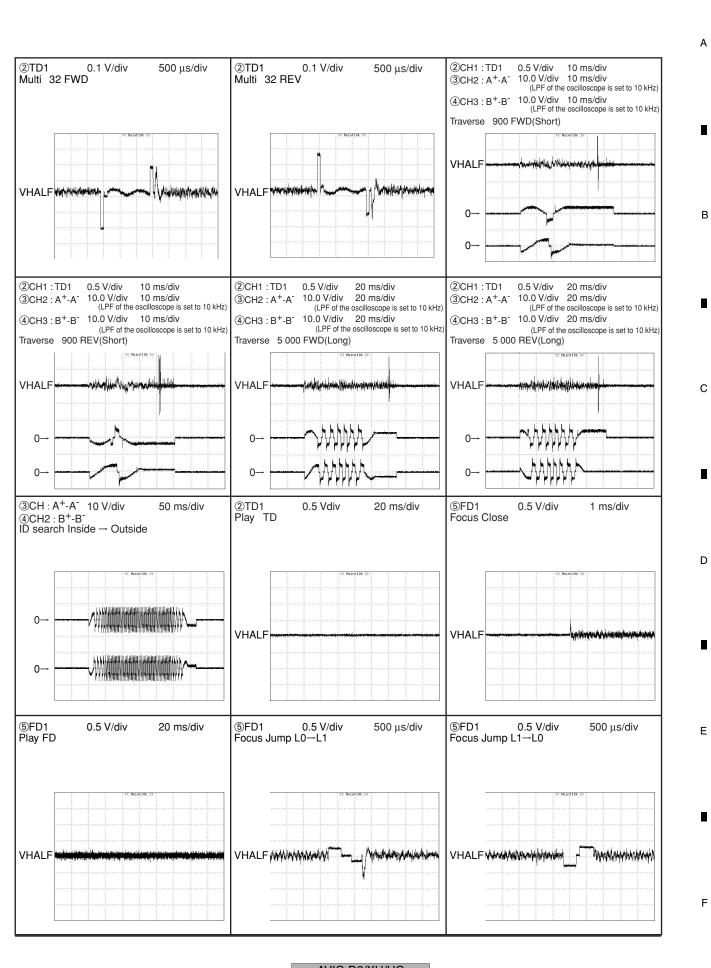


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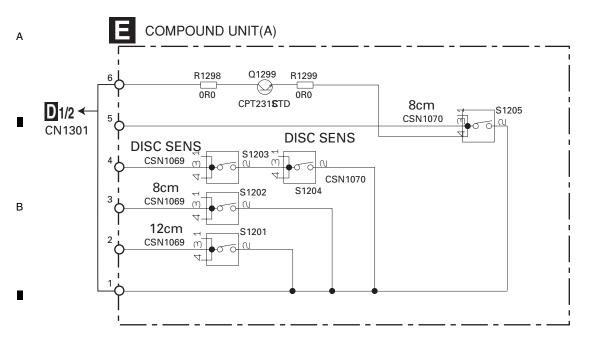
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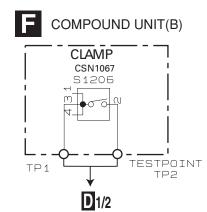




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3.16 COMPOUND UNIT(A), COMPOUND UNIT(B)





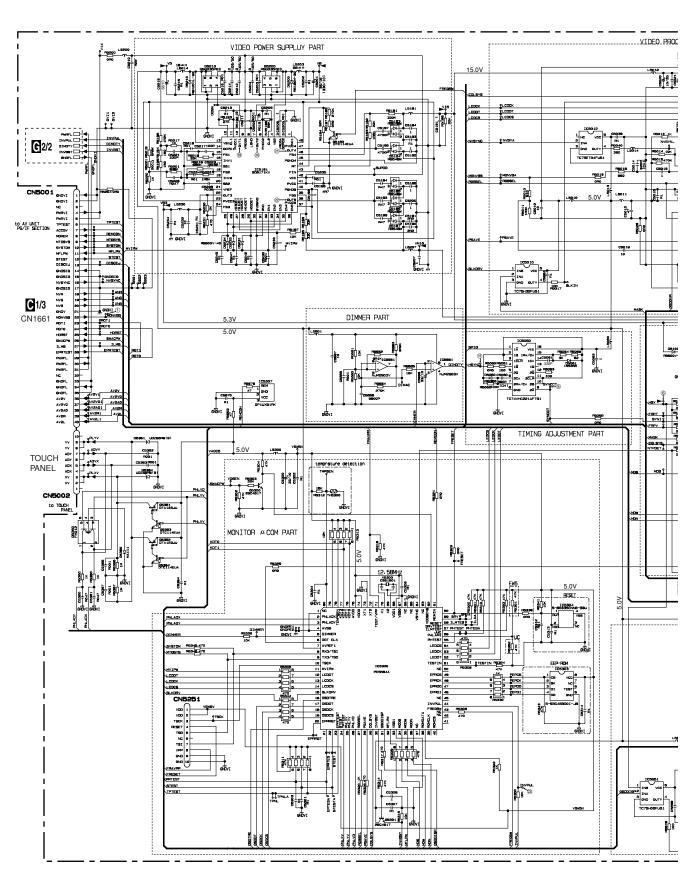
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3.17 MONITOR UNIT (VIDEO)(GUIDE PAGE)

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AVIC-D3/XU/UC

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G-b 1/2

___VIDEO_PROCECCING_PART_____ G 1/2 MONITOR UNIT (VIDEO) to LCD MODULE CN5007 LCD TIMING CONTOROL PART LCD MODULE AVER AVER CN4825 to KEY BOARD UNIT AV MINI JACK SECTION RGB_LED DRIVER PART OSD PART Н CN5503

G 1/2

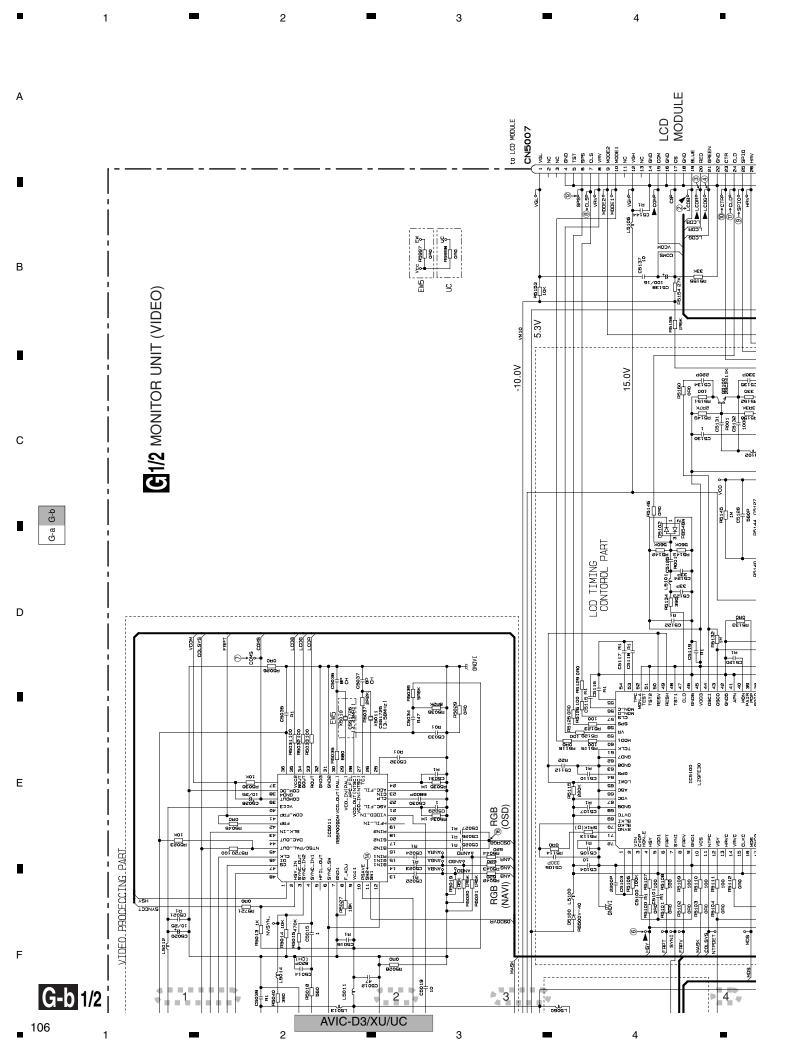
AVIC-D3/XU/UC

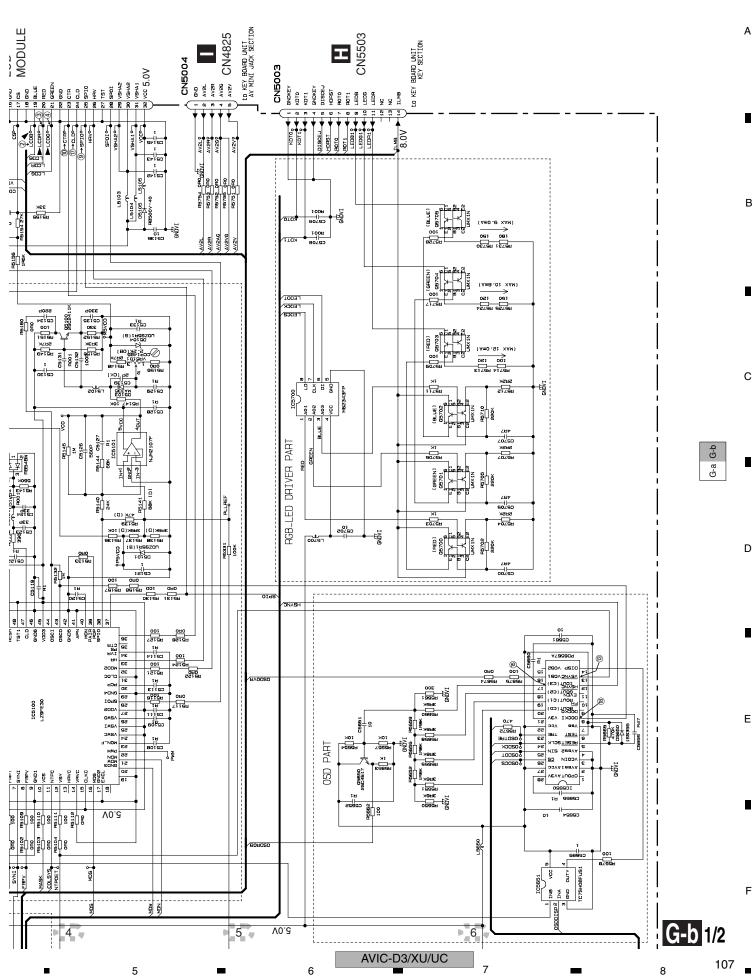
105

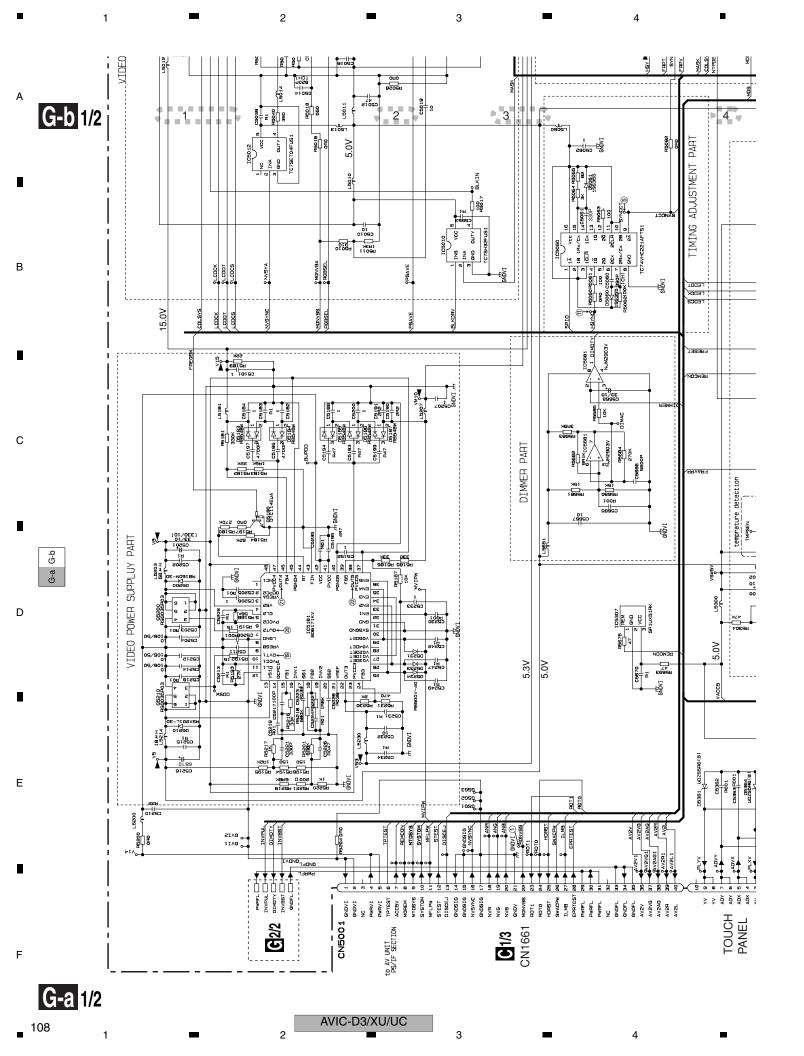
В

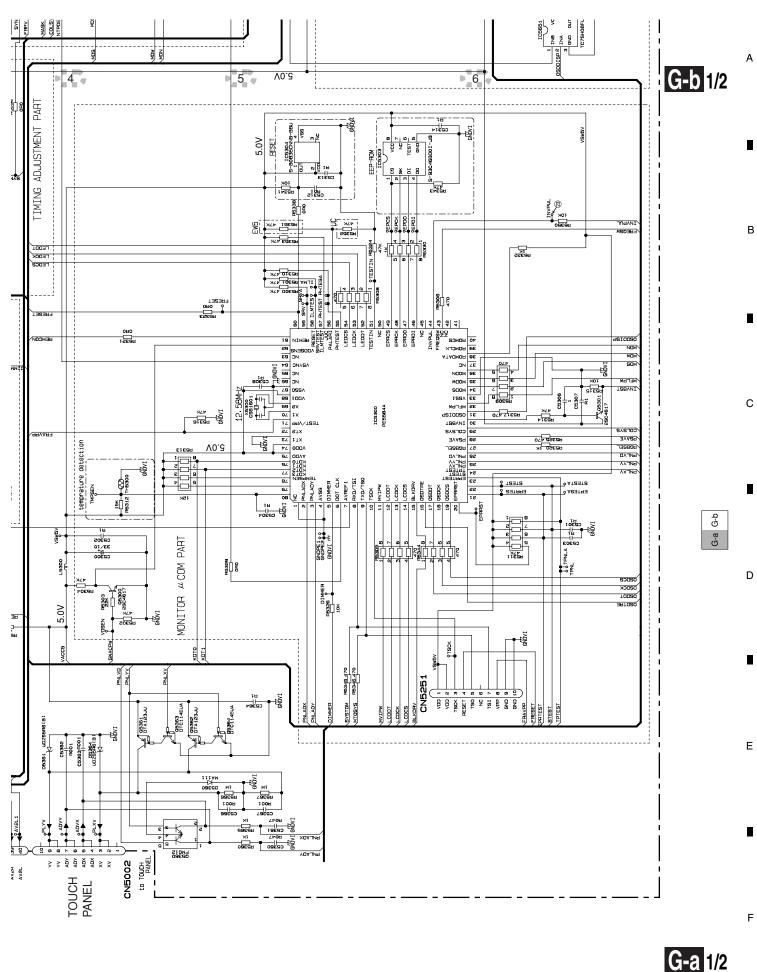
D

Ε









AVIC-D3/XU/UC

В

С

D

Ε

G2/2

AVIC-D3/XU/UC

C5911

GNDFI

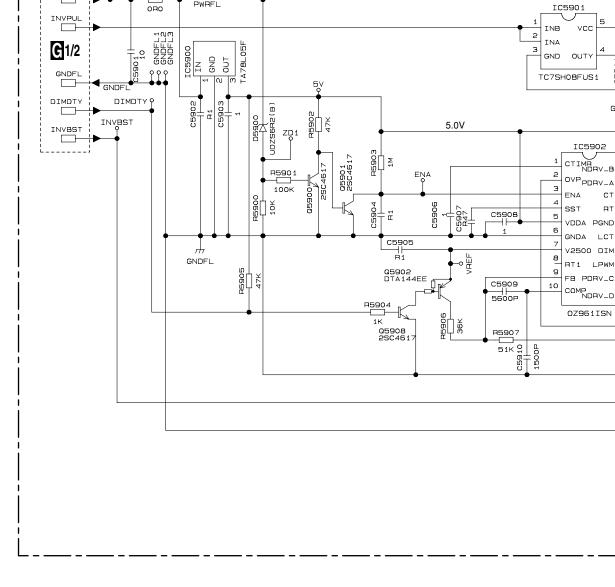
LCT

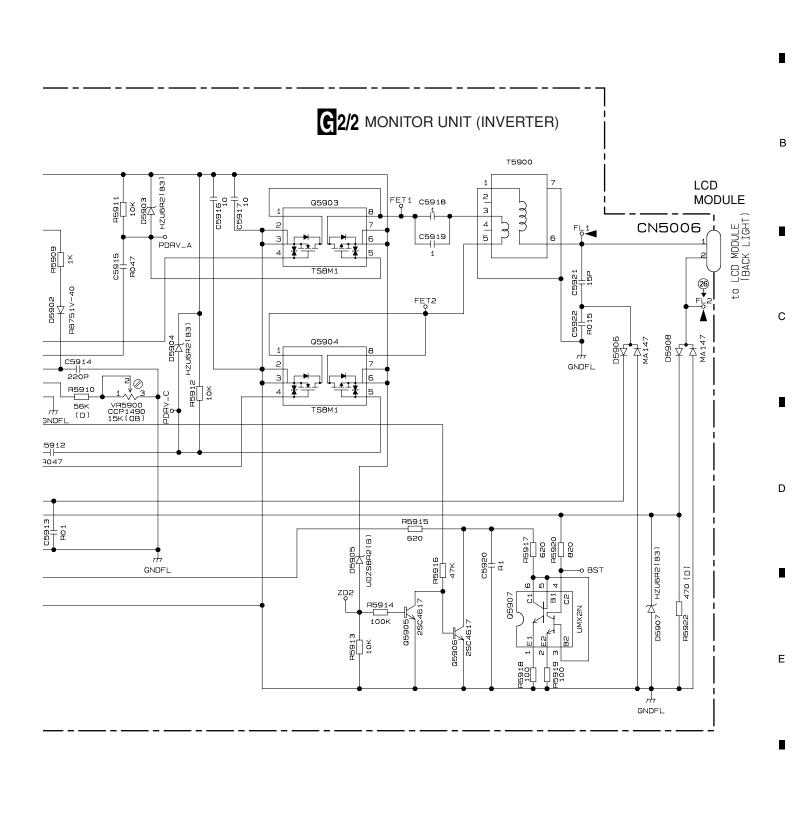
C5914 220P

R5910

C5912

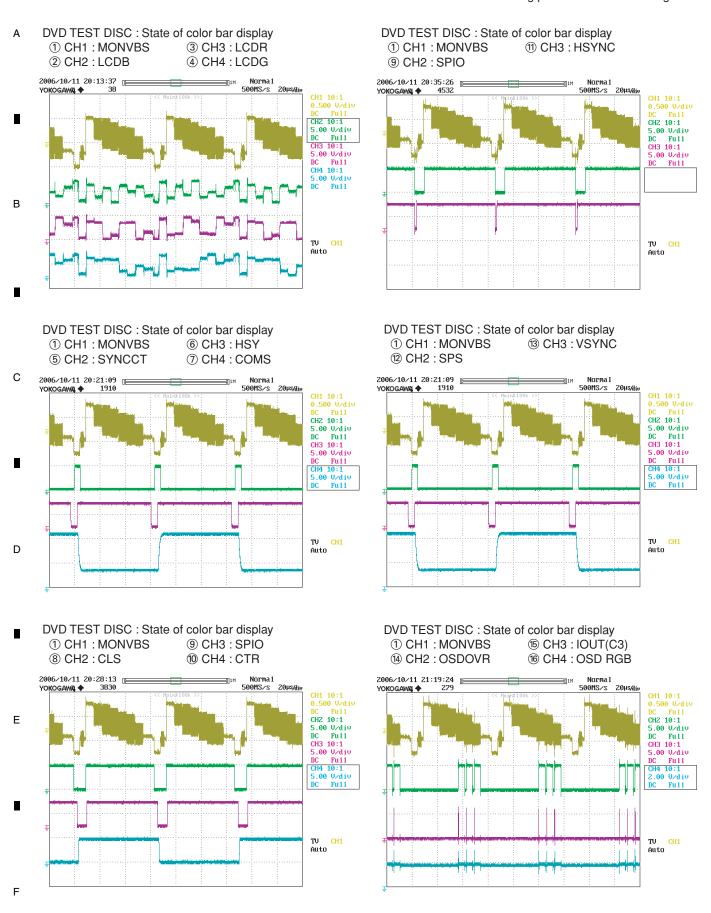
R047





G2/2

AVIC-D3/XU/UC



112

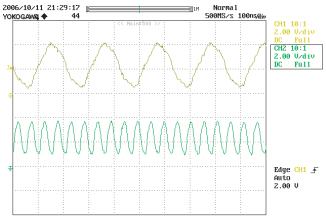
AVIC-D3/XU/UC

■ 6 **■** 7 **■** 8

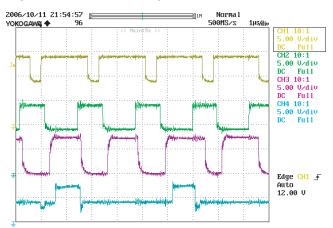
DVD TEST DISC : State of color bar display

⑦ CH1 : CLD⑧ CH2 : DOCKI

5

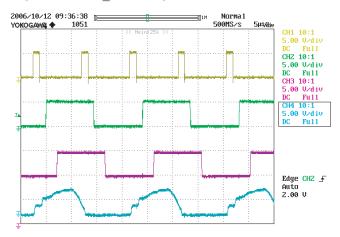


(9) CH1 : OUT1 (2) CH3 : OUT4 (20) CH2 : OUT5



② CH1:INVPUL ② CH3:PDRV_C ② CH2:NDRV_B ② CH4:FL2

5



6

AVIC-D3/XU/UC

В

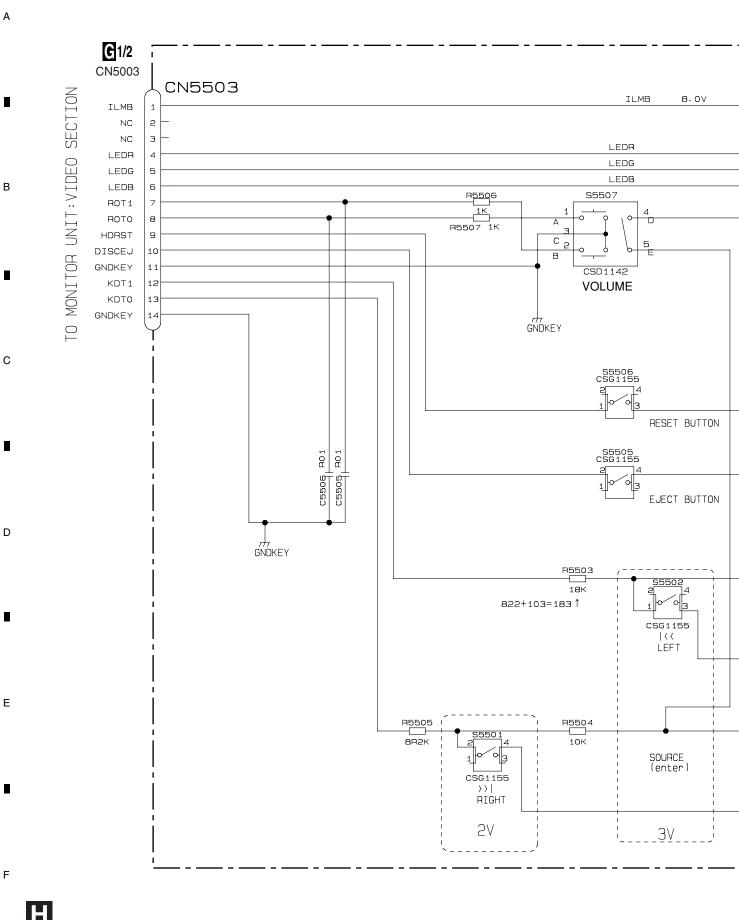
С

D

Ε

F

3

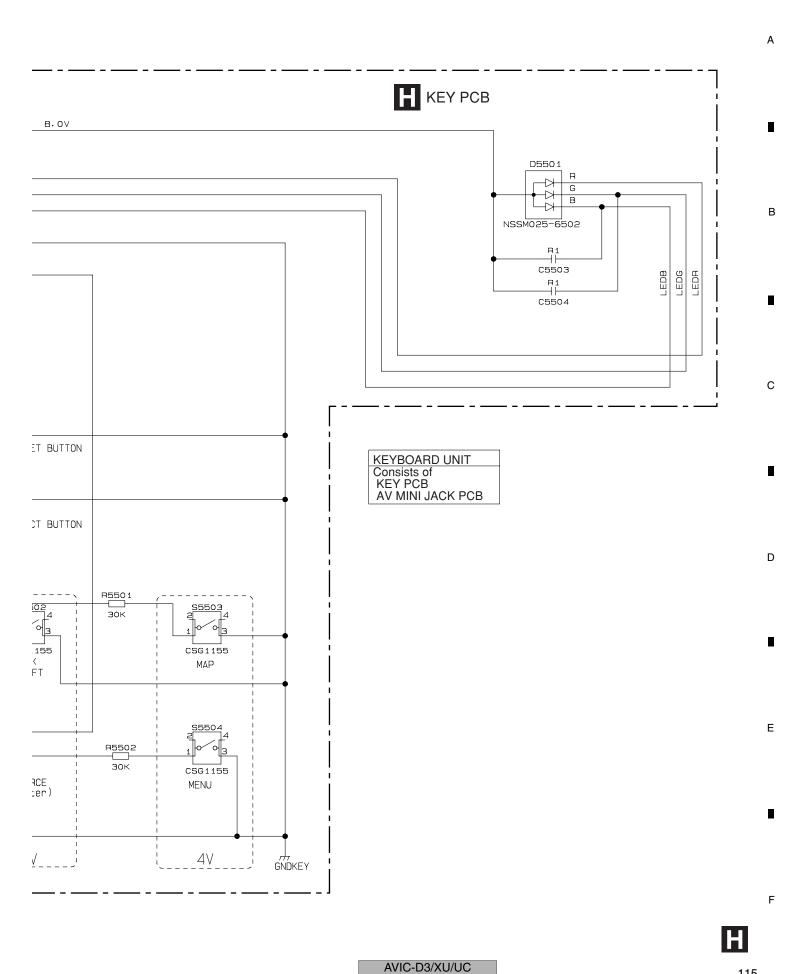


П

AVIC-D3/XU/UC

_

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3

D

Ε

AVIC-D3/XU/UC

3

4

G 1/2

CN5004

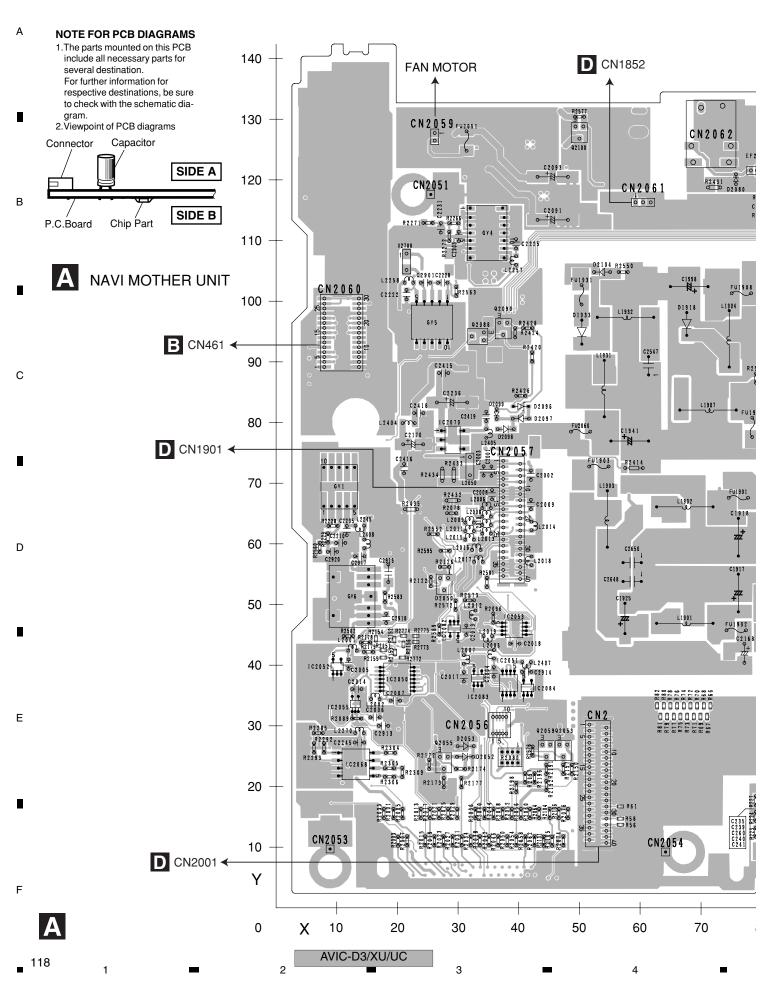
GND AV2L

AV2R AV2G

AV2V

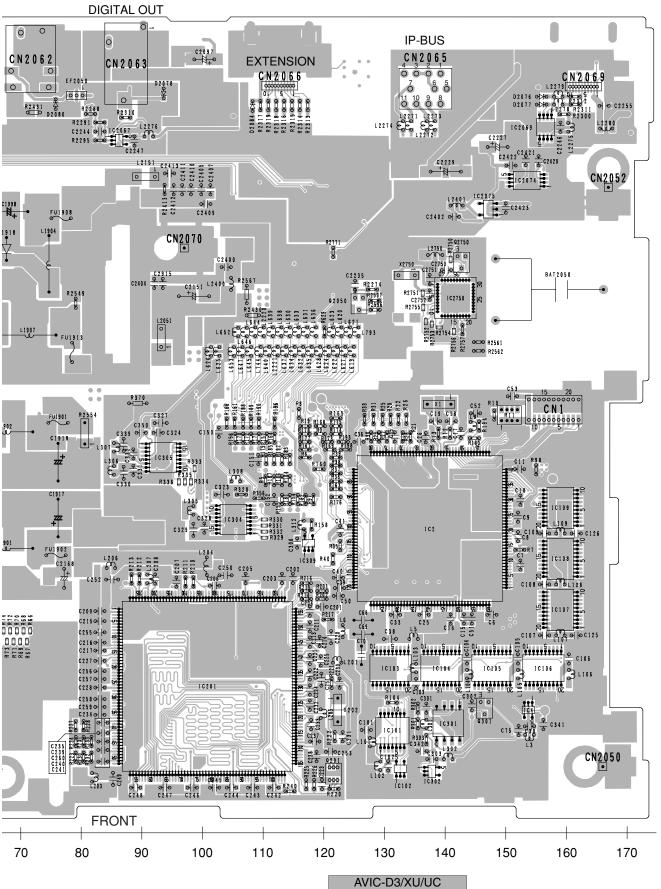
KEYBOARD UNIT Consists of KEY PCB AV MINI JACK PCB to MONITOR UNIT: VIDEO SECTION

5 В С Ε AVIC-D3/XU/UC 5



SIDE A A

В



5

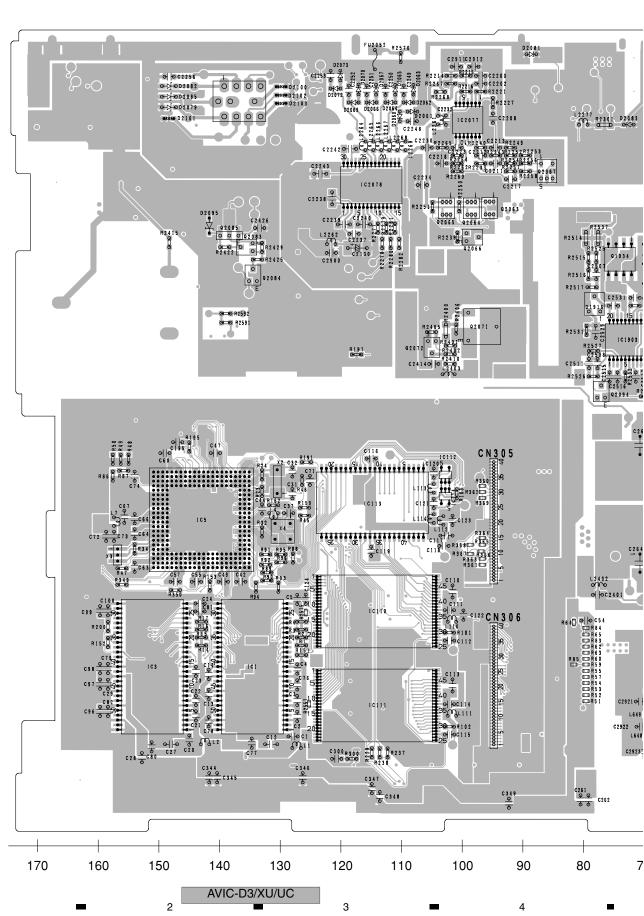
A

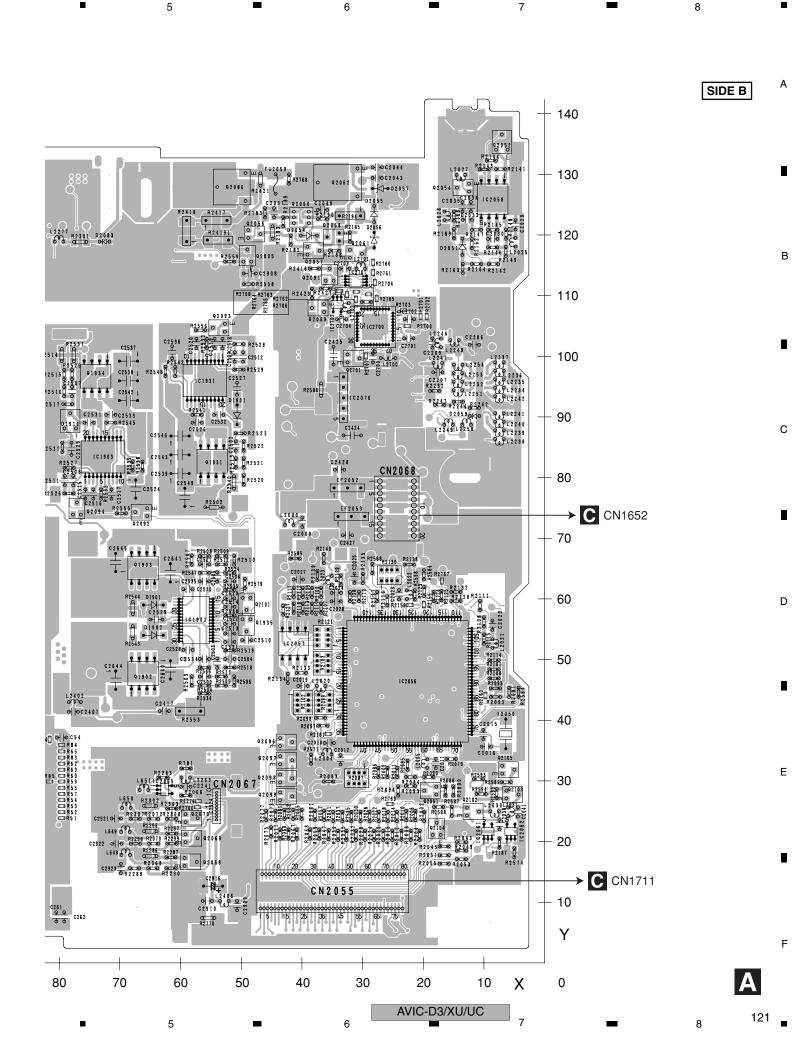
119

Ε

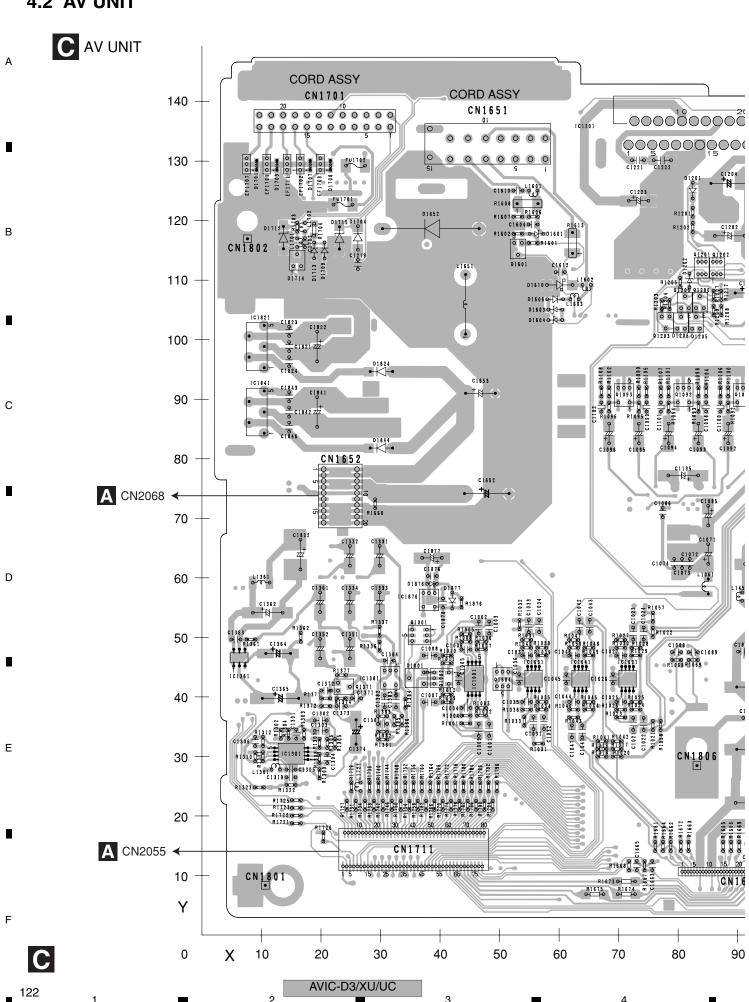
A NAVI MOTHER UNIT

Ε





4.2 AV UNIT



C AV UNIT

В

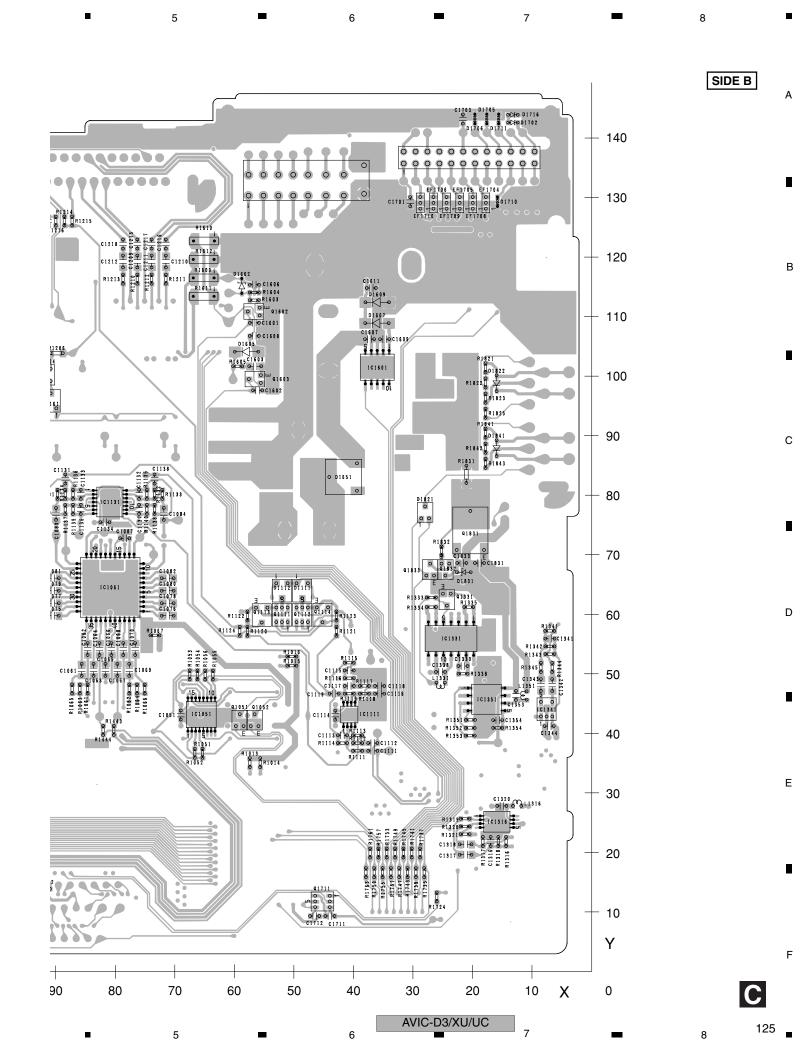
С

D

Ε

R1403 GDE R1408 C1416 O OC1414 O OC1414 O OC1414 O OC1413 OC1411 OC1414 O O 어 년 C1134 C1 G□0 R1431 G□0 R1432 G□0 R1433 G□0 R1433 G□0 R1435 G□0 R1435 G□0 R1435 Õ C1662 G⊟O O |O R1671 R1681 R1682 AVIC-D3/XU/UC

F



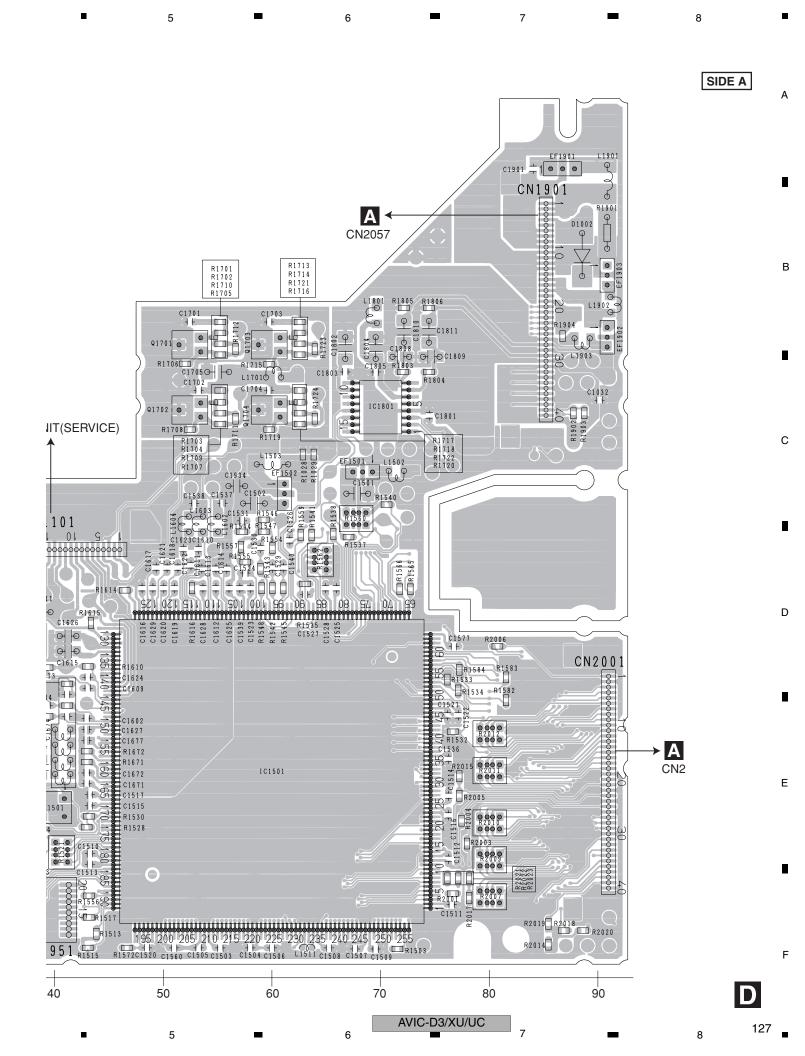
4.3 DVD CORE UNIT D DVD CORE UNIT 80 70 -60 PICKUP UNIT(SERVICE) 50 M2,M3 **←** CN1101 SI 01 40 -CN1201 C1109 C1111 30 M1 **←** 20 CN1851 IC1201 R1203 10 C1213+ + CN1852 R1224 R1222 Υ R1223 CN1951 R1515 Α CN2061 0 Χ 10 20 30 40 AVIC-D3/XU/UC 3

В

С

D

Ε



D DVD CORE UNIT L1002 R1016 C1009 C1008 Q1001 7 Q1003 D1001 C1004 C1021

O O O O O C1003 R1103 R1108 E C1103 R1108 E C1103 R1108 E C1103 R1108 E C1103 E C1103 E C1103 E C1103 E C1105 E C1106 0 0 IC1001 De P d F R1018 C1010 C1017 + P P + C1030 + P P P R1013 +10 5 C1023 @ IC1004 R1011

R1401

C1401

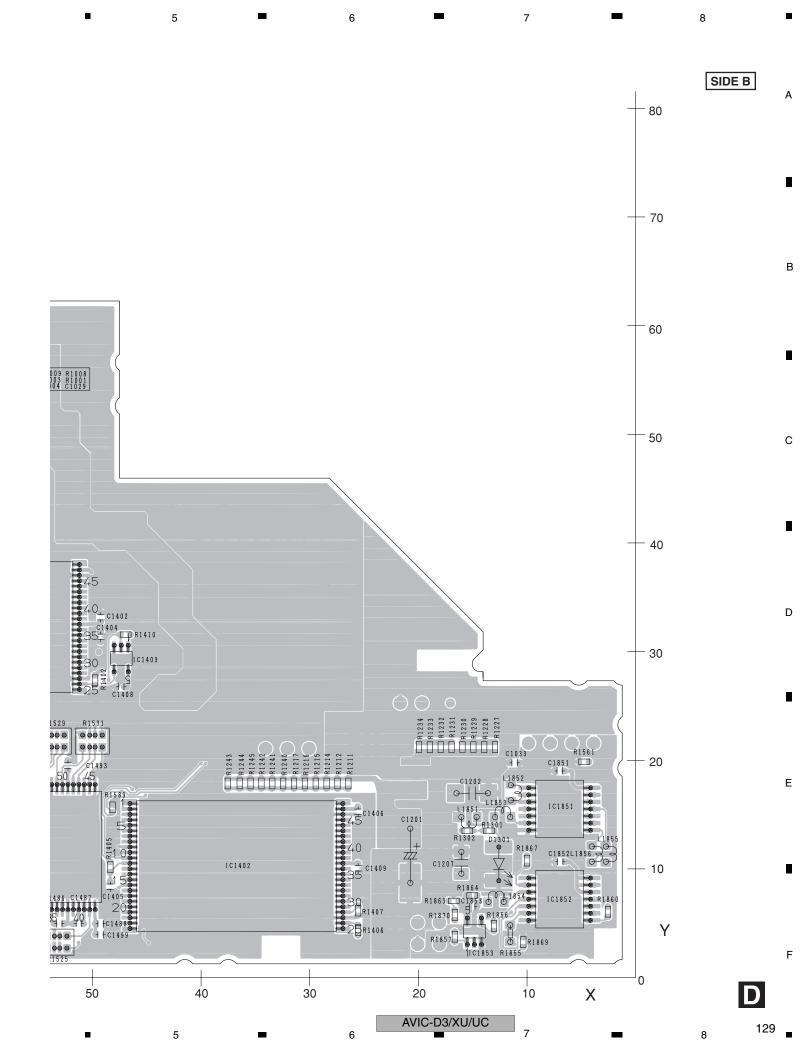
L1482

C1491

C1407

OHO

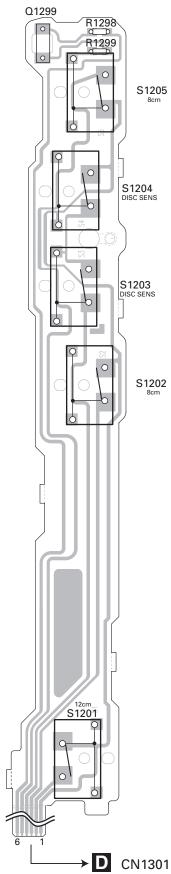
H IC1401 IC1301 0000 Ε CN1301 IC1352 IC1481 **目** ← 0000 0000 0000 0000 0000 0000 90 80 70 60 50 AVIC-D3/XU/UC

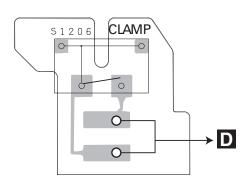


4.4 COMPOUND UNIT(A), COMPOUND UNIT(B)

E COMPOUND UNIT(A)







E|F

Ε

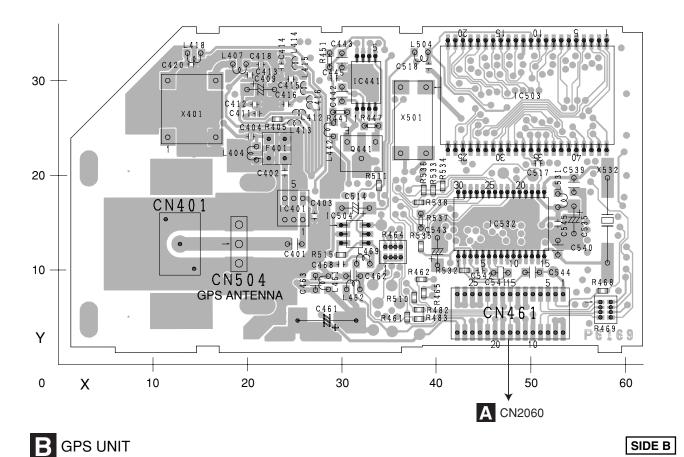
AVIC-D3/XU/UC

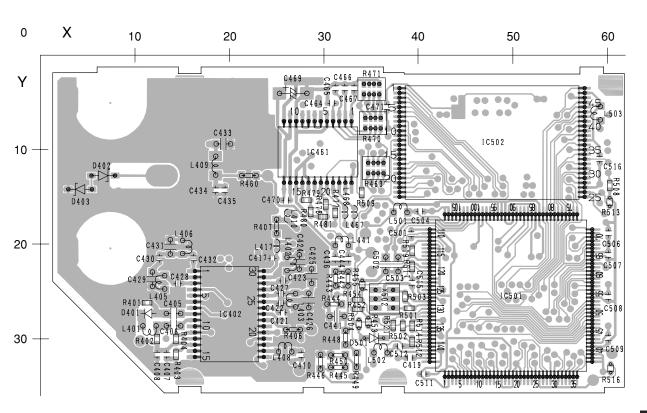
1 =

4.5 GPS UNIT

B GPS UNIT

SIDE A





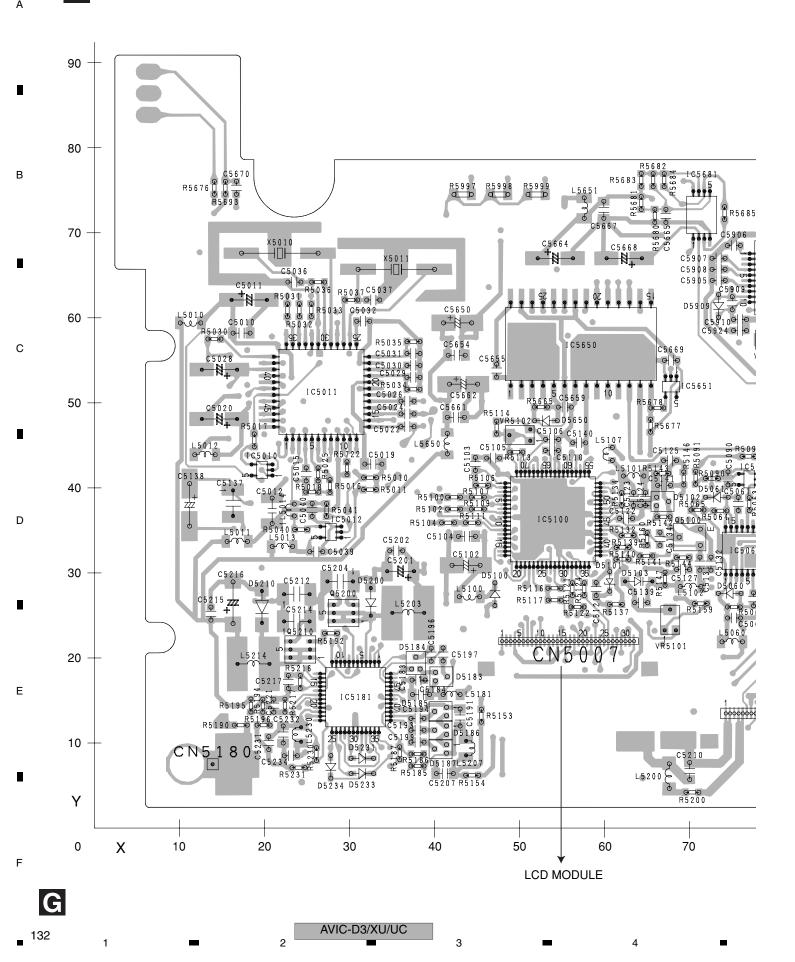
В

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AVIC-D3/XU/UC

4.6 MONITOR UNIT

G MONITOR UNIT



SIDE A

LCD MODULE Q5907 105681 В C5919 → |→ R5685 <u>CN5006</u> T5900 D5907 R5921 D5908 D5906 C5651 C5703 ⊖|⊝ R 5 3 4 5⊖□⊖ R 5 3 4 6 ⊝□⊖ CN5000 IC5300 CN5003 O□OR5306 L5700 → | → C5702 CN500 CN5001 Ε N 5 0 0 CN5005 4 ошо ₹5200 110 ↓ 70 80 100 140 90 120 130 **TOUCH PANEL** CN4825 **C** CN1661 CN5503 G

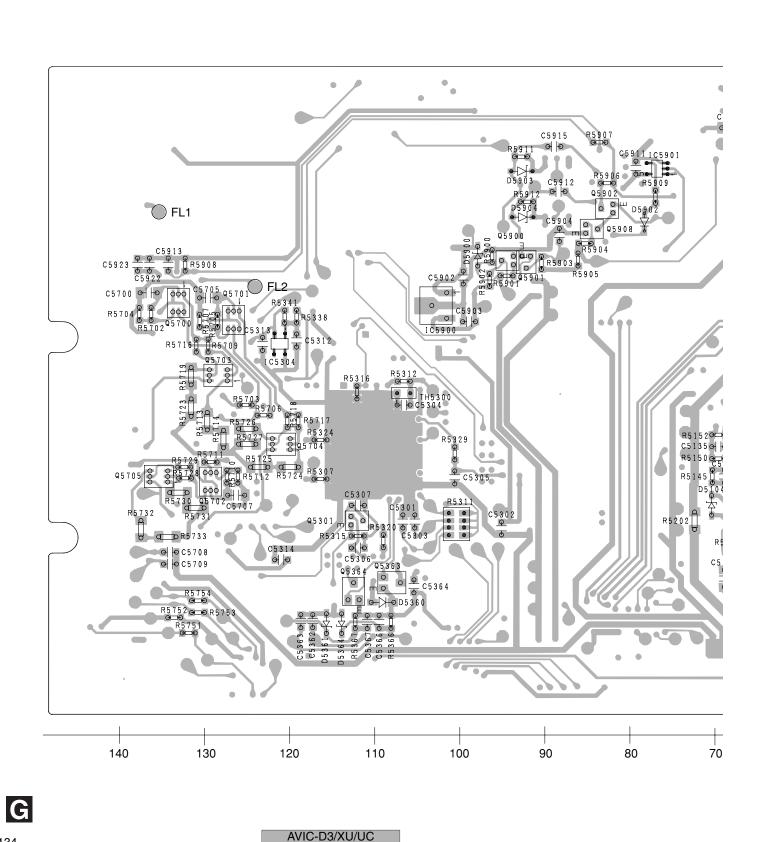
AVIC-D3/XU/UC

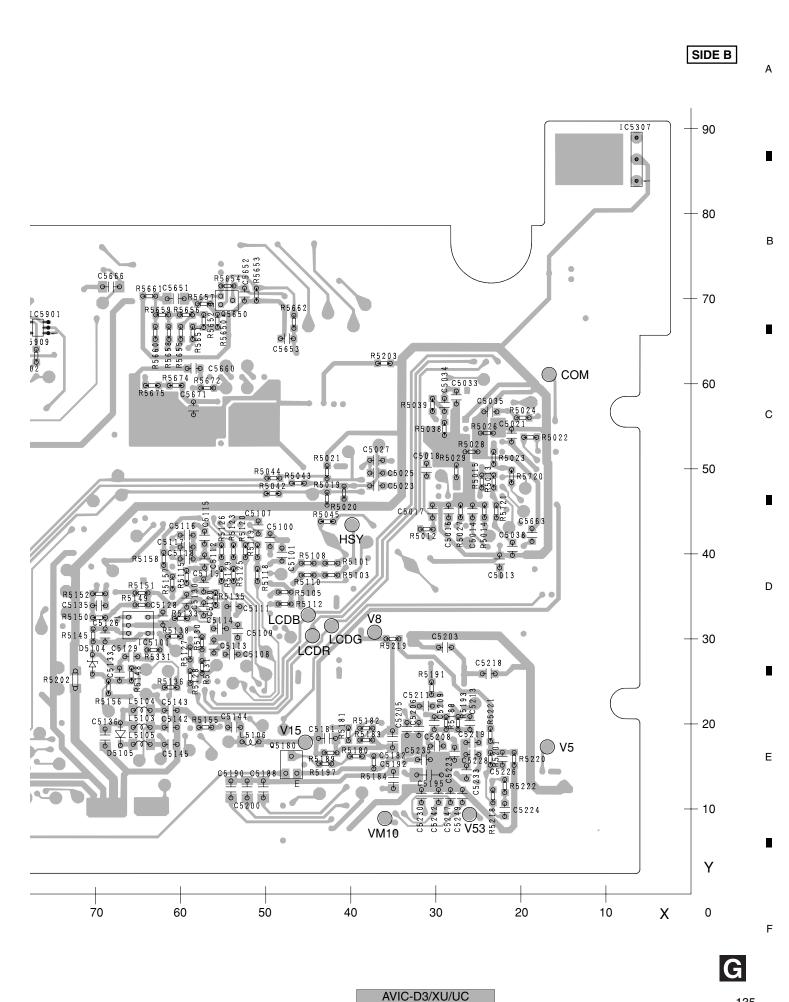
G MONITOR UNIT

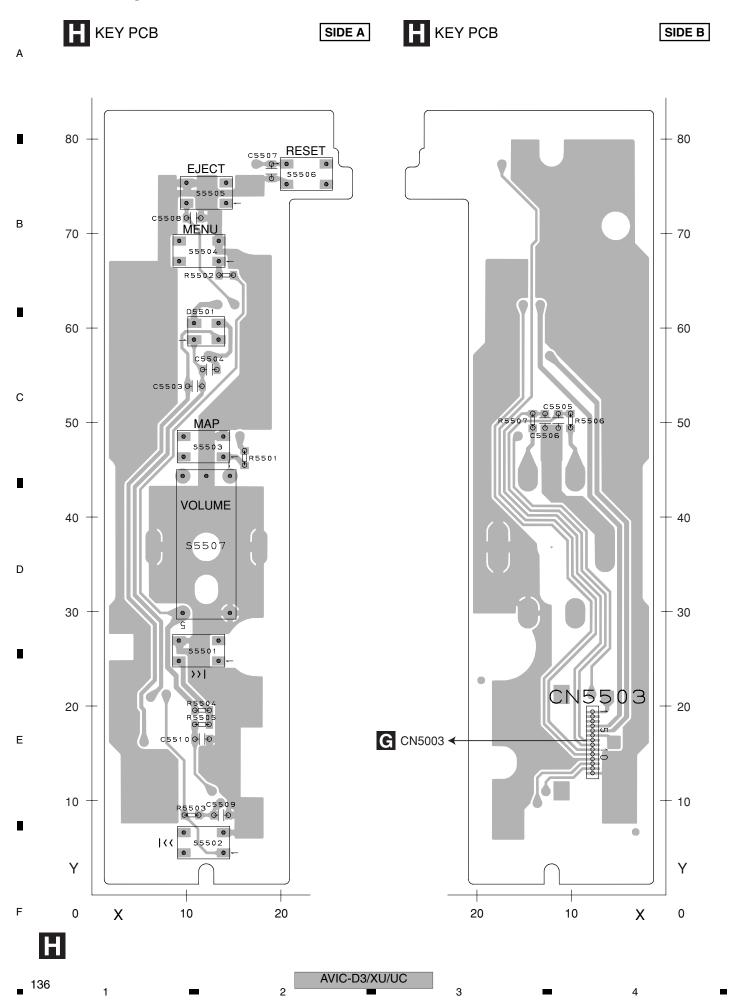
В

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4.8 AV MINI JACK PCB

AV MINI JACK PCB

SIDE A

6

AV MINI JACK PCB

SIDE B

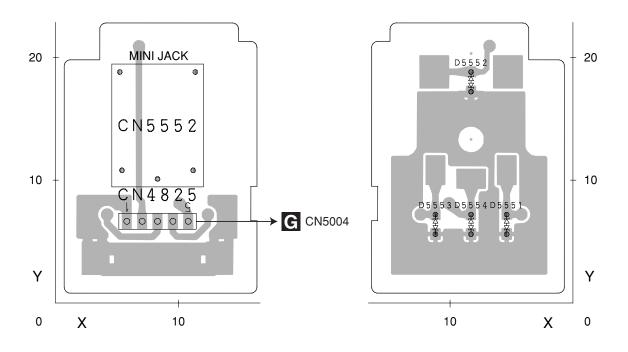
В

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AVIC-D3/XU/UC

5. ELECTRICAL PARTS LIST

NOTE:

- Parts whose parts numbers are omitted are subject to being not supplied.
- The part numbers shown below indicate chip components.

Chip Resistor

 $RS1/\bigcirc S\bigcirc\bigcirc\bigcirc J, RS1/\bigcirc\bigcirc S\bigcirc\bigcirc\bigcirc J$

Chip Capacitor (except for CQS.....)

CKS....., CCS....., CSZS.....

- The A mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- Meaning of the figures and others in the parentheses in the parts list.
- Example) IC 301 is on the point (face A, 91 of x-axis, and 111 of y-axis) of the corresponding PC board.

IC 301 (A, 91, 111) IC NJM2068V

	Circuit Sym	bol and No.	Part No.		cuit Symbol and No.	Part No.
	Unit Number:	CWN2189(l	JC)	IC 3	(B,151,30) IC	HY57V561620FLTP-H
	Unit Number:	•	•	IC 4 IC 5	(A,154,20) IC (B,143,54) IC	TC7SZ08FU PD6336C
		•	•	100	(0,140,04)	1 000000
	Unit Name :	Navi Mothe	r Unit	IC 101	(A,131,17) IC	TC74LCX08FTS1
	Unit Number:	CMX3446(I	IC)	IC 102	(A,133,11) IC	TC7SH04FUS1
С		•	•	IC 103 IC 104	(A,131,27) IC (A,139,27) IC	TC74LCX245FTS1 TC74LCX245FTS1
	Unit Number:	CWX3447(E	EW5)	IC 104	(A,148,27) IC	TC74LCX245FTS1
	Unit Name :	GPS Unit		IC 106	(A,156,27) IC	TC74LCX245FTS1
	Unit Number:	CWN2190(I	IC)	IC 100	(A,159,37) IC	TC74LCX541FTS1
		-	•	IC 108	(A,159,45) IC	TC74LCX541FTS1
	Unit Number:	CWN2090(E	EW5)	IC 109	(A,159,54) IC	TC74LCX541FTS1
	Unit Name :	AV Unit		IC 110	(B,114,39) IC(UC)	PEH103B
					(B,114,39) IC(EW5)	PEH077B
	Unit Number:	CWN2188(U	JC)	IC 111	(B,114,23) IC(UC)	PEH104B
	Unit Number:	CWN2091(F	=W5)		(B,114,23) IC(EW5)	PEH078B
D		•	•	IC 112	(B,103,61) IC	TC7SH00FUS1
	Unit Name :	Monitor Un	it	IC 113 IC 114	(B,115,57) IC (B,103,58) IC	M5M5V216ATP-70HI TC7SH08FUS1
	Unit Number:			IC 201	(A,101,24) IC	MB86291APFVS-G-DL
		Marria a arral I	I!1		,	
	Unit Name :	Keyboard U	Jnit	IC 301	(A,141,18) IC	M51957BFP
	Unit Number:	CWX3401		IC 302 IC 304	(A,138,10) IC (A,105,52) IC	TC7SH08FUS1 AK4388VT
	Heit Name	DVD Core U	lasia.	IC 304	(A,118,48) IC	TC7SH08FUS1
			אווונ	IC 1901	(B,57,57) IC	TPS5120DBT
	Unit Number:	CWX3154			/ - -	
	Unit Name :	Compound	Unit(A)	IC 1903	(B,73,83) IC	TPS5103IDB TPS5103IDB
Е		-	Omt(A)	IC 1931 IC 2050	(B,56,96) IC (A,20,38) IC	TC74VHCT08AFTS1
_	Unit Number:	CWX3394		IC 2051	(A,38,37) IC	TC7WH32FU
	Unit Name :	Compound	Unit(B)	IC 2052	(A,10,40) IC	TC7S32FU
				IC 2053	(A,39,46) IC	TC7WH08FU
				IC 2055	(A,13,34) IC	BD5335FVE
	A			IC 2056	(B,23,46) IC(UC)	PE5580A
		OW/NO4 00/I	10)	IC 2058	(B,23,46) IC(EW5) (B,9,126) IC	PE5581A NJM2904M
	Unit Number:	•	,	IC 2061	(B,9,22) IC	TC7SH08FUS1
	Unit Number:	•	,			
	Unit Name :	Navi Mothe	r Unit	IC 2062	(B,6,22) L-MOS AND Gate	
F		_		IC 2065 IC 2067	(B,63,29) IC (A,86,114) L-MOS AND G	TC7SH04FUS1
'	MISCELLANEOU	<u>S</u>		IC 2068	(A,13,24) IC	HA12241FP
	IC 1 (B,135,3	10) IC	K4S561632H-UL75	IC 2070	(A,29,77) IC	S-814A50AUC-BDO
	IC 1 (B, 135,3		UPD705103GM-180S1			
	(, , , , , , , ,	, -	ΔVIC-D3/XI	I/LIC		

	5	6	_		7		8
Circu	uit Symbol and No.	Part No.		Circu	uit Symbo	ol and No.	Part No.
IC 2075 IC 2076 IC 2078 IC 2083 IC 2084	(A,147,103) IC (B,28,93) IC (B,115,109) IC (A,33,38) IC (A,41,36) IC	S-L2980A33MC- BD3931HFP UPD4723GSS1 TC7SH14FUS1 TC7SH04FUS1	C6S	D 2057 D 2059 D 2060 D 2061 D 2062	(B,27,128) (B,12,90) [(B,110,120) (B,108,121) (B,109,123)	Diode) Diode) Diode	HZU11(B2) EDZ5R6(B) EDZ13(B) EDZ13(B) EDZ13(B)
Q 201 Q 301 Q 1902 Q 1903 Q 1931	(A,122,10) Transistor (A,147,21) Transistor (B,66,48) FET (B,66,65) FET (B,55,83) FET	UMD2N DTC114EUA SP8K10S SP8K10S SP8K10S		D 2063 D 2064 D 2065 D 2066 D 2067	(B,108,125) (B,112,123) (B,111,125) (B,115,123) (B,114,125)	Diode Diode Diode	EDZ13(B) EDZ13(B) EDZ13(B) EDZ13(B) EDZ13(B)
Q 1934 Q 1935 Q 2050 Q 2051 Q 2052	(B,74,97) FET (B,49,56) FET (A,126,87) Transistor (B,19,28) Transistor (B,7,135) Transistor	SP8K2 2SK1827 2SA1576A 2SA1576A DTC114WK		D 2069 D 2070 D 2072 D 2073 D 2078	(B,118,123) (B,117,125) (B,121,125) (B,120,127) (A,94,122)	Diode Diode Diode	EDZ13(B) EDZ13(B) EDZ13(B) EDZ13(B) EDZ5R6(B)
Q 2053 Q 2054 Q 2055 Q 2056 Q 2057	(A,47,26) Transistor (B,13,128) Transistor (A,28,24) Transistor (B,48,120) Transistor (B,38,117) Transistor	DTC124EUA DTC114EUA 2SA1576A DTA114EUA DTC114EUA		D 2079 D 2081 D 2082 D 2084 D 2085	(B,148,122) (B,89,131) (B,148,125) (A,108,120) (B,148,124)	Diode) Diode) Diode	UDZS18(B) EDZ5R6(B) UDZS18(B) EDZ6R8(B) UDZS18(B)
Q 2058 Q 2059 Q 2060 Q 2061 Q 2062	(B,35,120) Transistor (A,45,26) Transistor (B,40,123) Transistor (B,31,117) Transistor (B,36,129) Transistor	2SA1587 DTC124EUA IMX1 DTC114EUA 2SD1760F5		D 2096 D 2097 D 2098 D 2099 D 2100	(A,40,83) [(A,40,81) [(A,38,79) [(A,36,81) [(B,130,125]	Diode Diode Diode	HZU7R5(B3) RB500V-40 RB500V-40 EDZ20(B) MALS068X
Q 2068 Q 2069 Q 2070 Q 2071 Q 2072	(B,58,17) Transistor (B,58,21) Transistor (B,58,24) Transistor (B,94,86) Transistor (B,105,82) Transistor	2SA1576A 2SA1576A 2SA1576A 2SA1834F5 2SC4081		D 2101 D 2102 D 2103 D 2104 L 1	(B,148,120) (B,130,124) (B,130,122) (A,54,105) (B,127,16)	Diode Diode Diode	MALS068X MALS068X MALS068X RB500V-40 CTF1558
Q 2088 Q 2089 Q 2090 Q 2091 Q 2092	(A,33,94) Transistor (B,37,108) Transistor (A,37,95) Transistor (B,35,113) Transistor (B,67,74) Transistor	2SC4081 DTC114EUA 2SC4081 2SA1576A DTC114EUA		L 2 L 3 L 5 L 6 L 7	(B,142,17) (A,154,16) (A,135,32) (A,123,33) (B,157,53)	Inductor Inductor Inductor	CTF1558 CTF1410 CTF1556 CTF1295 CTF1558
Q 2093 Q 2094 Q 2095 Q 2096 Q 2097	(B,54,105) Transistor (B,77,75) Transistor (B,49,117) Transistor (B,43,36) Transistor(EW5) (B,43,33) Transistor(EW5)	DTC114EUA DTC114EUA 2SC4081 DTC124EUA DTC124EUA		L 8 L 101 L 102 L 103 L 104	(A,129,11) (A,135,27)	Inductor Chip Ferrite Bea Chip Ferrite Bea Chip Ferrite Bea	d CTF1557 d CTF1557
Q 2098 Q 2099 Q 2100 Q 2101 Q 2102	(B,43,30) Transistor(EW5) (B,43,27) Transistor(EW5) (A,50,128) Transistor (B,49,59) Transistor (B,12,25) Transistor	DTC124EUA DTC124EUA 2SA1576A DTC114EUA 2SA1576A		L 105 L 106 L 107 L 108 L 109	(A,160,26) (A,159,33) (A,159,41)	Chip Ferrite Bea Chip Ferrite Bea Chip Ferrite Bea Chip Ferrite Bea Chip Ferrite Bea	d CTF1557 d CTF1557 d CTF1557
Q 2103 Q 2104 Q 2105 D 1901 D 1902	(B,5,28) Transistor (B,18,22) Transistor (B,6,32) Transistor (B,65,59) Diode (B,65,54) Diode	2SA1576A DTC114EUA DTC114EUA RB160M-40 RB160M-40		L 110 L 111 L 112 L 113 L 114	, , ,	Inductor	
D 1916 D 1918 D 1931 D 1933 D 2050	(B,78,89) Diode (A,68,96) Diode (B,51,90) Diode (A,50,95) Diode (A,28,53) Diode	RB400D RB060L-40 RB160M-40 RB083L-20 DAN202U		L 201 L 203 L 204 L 205 L 206	(A,122,28) (A,82,9) In (A,101,44) (A,120,20) (A,85,44) I	ductor Inductor Inductor	CTF1556 CTF1556 CTF1488 CTF1556 CTF1556
D 2051 D 2052 D 2054 D 2055 D 2056	(B,14,118) Diode (A,31,25) Diode (B,39,120) Diode (B,28,123) Diode (B,28,119) Diode	1SS355 1SS355 RB500V-40 RB500V-40 HZU8R2(B1)		L 207 L 301 L 302 L 305 L 308	,	Chip Ferrite Bea Chip Ferrite Bea nductor	
			A) //O DO	0/11/110	1		

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6 AVIC-D3/XU/UC 7 8 139

		1 -	2	•	3	4
	Circ	cuit Symbol and No.	Part No.	9	Circuit Symbol and No.	Part No.
	L 312	(A,117,51) Inductor	CTF1410	L 2020	0 (B,37,46) Inductor	CTF1410
	L 619	(A,125,79) Inductor	CTF1306	L 202	1 (B,9,53) Inductor	CTF1410
	L 620	(A,123,83) Inductor	CTF1306	L 2022	2 (B,23,61) Inductor	CTF1410
Α	L 621	(A,124,83) Inductor	CTF1306	L 2023	3 (B,35,63) Inductor	CTF1410
	L 622	(A,122,79) Inductor	CTF1334	L 2025	5 (B,5,119) Inductor	CTF1334
	L 623	(A,122,83) Inductor	CTF1387	L 2027		CTF1334
	L 624	(A,121,79) Inductor	CTF1334	L 2028	8 (B,17,123) Inductor	CTF1334
	L 625	(A,103,79) Inductor	CTF1306	L 2030	0 (B,8,25) Inductor	CTF1410
	L 626	(A,101,79) Inductor	CTF1306	L 203	,	CTF1410
-	L 627	(A,124,79) Inductor	CTF1306	L 2050	0 (A,32,73) Inductor	CTF1453
	L 628	(A,119,79) Inductor	CTF1306	L 205	,	CTF1453
	L 630	(A,114,83) Inductor	CTF1306	L 215		CTF1453
	L 631	(A,117,83) Inductor	CTF1334	L 2220		CTF1334
ь.	L 632	(A,117,79) Inductor	CTF1334	L 222		CTF1334
В	L 633	(A,116,83) Inductor	CTF1334	L 2234	4 (B,7,95) Inductor	CTF1334
	L 634	(A,115,79) Inductor	CTF1334	L 2235	,	CTF1334
	L 635	(A,118,79) Inductor	CTF1306	L 2236		CTF1334
	L 636	(A,119,83) Inductor	CTF1334	L 2237	, , ,	CTF1334
	L 637	(A,114,79) Inductor	CTF1306	L 2238		CTF1334
	L 638	(A,113,83) Inductor	CTF1306	L 2239	9 (B,7,88) Inductor(EW5)	CTF1334
	L 639	(A,112,83) Inductor	CTF1306	L 2240	0 (B,7,89) Inductor(EW5)	CTF1334
	L 640	(A,111,79) Inductor	CTF1306	L 224	1 (B,7,91) Inductor(EW5)	CTF1334
	L 644	(A,109,83) Inductor	CTF1306	L 2242	2 (B,7,93) Inductor(EW5)	CTF1334
	L 645	(A,108,79) Inductor	CTF1306	L 224	5 (A,14,63) Inductor	CTF1334
С	L 646	(A,107,83) Inductor	CTF1334	L 2246	6 (B,17,102) Inductor	CTF1334
	L 647	(A,107,79) Inductor	CTF1334	L 2247	7 (B,18,99) Inductor	CTF1334
	L 648	(B,69,18) Inductor	CTF1378	L 2248	,	CTF1463
	L 649	(B,69,22) Inductor	CTF1378	L 2249		CTF1334
	L 650	(B,69,26) Inductor	CTF1378	L 2250		CTF1334
	L 651	(B,66,29) Inductor	CTF1378	L 225	· · · /	CTF1334
	L 652	(A,106,83) Inductor	CTF1334	L 2252	2 (B,14,96) Inductor	CTF1334
	L 653	(A,105,79) Inductor	CTF1467	L 2250	· · · · /	CTF1334
	L 744	(A,110,79) Inductor	CTF1334	L 2254		CTF1334
	L 793	(A,126,83) Inductor	CTF1334	L 225		CTF1334
	L 1901	(A,67,47) Inductor	CTH1257	L 2262	, , , , ,	CTF1410
D	L 1902	(A,67,66) Inductor	CTH1257	L 2260	3 (B,59,31) Inductor	CTF1410
	L 1903	(A,55,64) Inductor	CTH1253	L 2264	· · · · /	CTF1334
	L 1904	(A,75,94) Inductor	CTH1255	L 226		CTF1334
	L 1907	(A,71,82) Inductor	CTH1257	L 2266		CTF1334
	L 1931	(A,54,86) Inductor	CTH1255	L 2267		CTF1334
	L 1932	(A,58,97) Inductor	CTH1257	L 2268	8 (B,111,115) Inductor	CTF1334
	L 2000	(B,42,72) Inductor	CTF1357	L 2269		CTF1334
	L 2001	(A,13,42) Inductor	CTF1410	L 2270		LCYC2R2K1608
	L 2002	(A,16,34) Inductor	CTF1410	L 227		CTF1334
	L 2003	(A,36,42) Inductor	CTF1410	L 2272	2 (A,137,117) Inductor	CTF1334
_	L 2004	(B,36,34) Inductor	CTF1410	L 2273	3 (A,138,117) Inductor	CTF1334
Е	L 2005	(B,19,33) Inductor	CTF1410	L 2274	,	CTF1334
	L 2006	(A,35,66) Inductor	CTF1463	L 2276	6 (A,91,115) Inductor	CTF1379
	L 2007	(A,31,41) Inductor	CTF1410	L 2400	0 (A,105,91) Inductor	CTF1393
	L 2009	(A,32,64) Inductor	CTF1306	L 240	1 (A,142,103) Chip Ferrite B	Bead CTF1399
	L 2010	(A,35,63) Inductor	CTF1306	L 2402	2 (B,77,43) Inductor	CTF1393
	L 2011	(A,32,62) Inductor	CTF1306	L 2400		CTF1393
	L 2012	(A,33,48) Inductor	CTF1410	L 2404	4 (A,22,80) Inductor	CTF1393
	L 2013	(A,35,62) Inductor	CTF1306	L 2405		CTF1357
	L 2014	(A,42,63) Inductor	CTF1306	L 2406	6 (B,53,10) Inductor	CTF1410
	L 2015	(A,32,61) Inductor	CTF1306	L 2407	7 (A,41,41) Inductor	CTF1410
F	L 2016	(A,33,59) Inductor	CTF1306	X 1	(A,139,71) Radiator 30.00	
'	L 2017	(A,33,57) Inductor	CTF1306	X 2	(B,131,60) Radiator 33.00	
	L 2018	(A,42,57) Inductor	CTF1306	X 3	(B,157,48) Radiator 33.86	
	L 2019	(A,35,45) Inductor	CTF1410	X 202	(A,122,20) Radiator 14.31	8 18 MHz CSS1632
				AVIC-D3/XU/UC	l	

AVIC-D3/XU/UC

		5		6	_			7		8		
	Circu	uit Symbo	l and No.	Part No.			Circu	uit Symbol a	nd No.	Part No.		
X	2050	-		68 MHz CSS162	22	R 54		(B,80,27)		RS1/16SS101J		
	U1901	(A,76,68) F		CEK1257		_		(,, ,				
	U1902	(A,76,46) F		CEK1257		R 55		(B,80,29)		RS1/16SS101J		
	U1903	(A,53,73) F		CEK1258		R 57		(B,80,28)		RS1/16SS101J		Α
<u> </u>	U1908	(A,77,101)	Fuse 2.5 A	CEK1258		R 59		(B,80,30)		RS1/16SS101J		
^ -	114040	(A 70 70) F	O F A	051/4050		R 60		(B,80,31)		RS1/16SS101J		
	U1913	(A,79,79) F		CEK1258		R 61		(A,57,17)		RS1/16SS0R0J		
	U1931 U2051	(A,50,101) (A,31,126)		CEK1258 CEK1254		R 62		(B,80,33)		RS1/16SS101J		
	U2051	(B,114,130)		CEK1257		R 63		(B,80,32)		RS1/16SS101J		_
	U2060	(A,50,79) F		CEK1259		R 64		(B,82,37)		RS1/16SS101J		
٠	02000	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		02.11.200		R 65		(B,80,35)		RS1/16SS101J		
GY	′ 1	(A,10,69) S	Sensor	CSX1122		R 66		(A,72,33)		RS1/16SS101J		
GY		(A,35,111)	Sensor	CSX1118								
	2052	(B,33,78) E		CCG1172		R 67		(A,71,32)		RS1/16SS101J		
EF:	2053	(B,32,74) E	MI Filter	CCG1172		R 68		(A,71,33)		RS1/16SS101J		В
D E	OIOTOE					R 69		(A,70,32)		RS1/16SS101J		ь
KE	SISTOF	<u>15</u>				R 70 R 71		(A,69,33) (A,69,32)		RS1/16SS101J RS1/16SS101J		
_	4	(D 107 00)		DC4/4000D01		п / і		(A,09,32)		NO 1/10001010		
R R		(B,127,33) (B,127,36)		RS1/16S0R0J RS1/16S0R0J		R 72		(A,68,33)		RS1/16SS101J		
R		(B, 127,30) (A,110,58)		RS1/16S473J		R 73		(A,68,32)		RS1/16SS101J		
R		(A,117,62)		RS1/16S473J		R 74		(A,67,33)		RS1/16SS101J		
R		(A,152,47)		RS1/16S220J		R 75		(A,67,32)		RS1/16SS101J		-
		(, - , ,				R 76		(A,66,33)		RS1/16SS101J		
R		(A,116,69)		RS1/16S473J		-		(4.05.55)		D04//2003		
R s		(A,119,66)		RS1/16S473J		R 77		(A,66,32)		RS1/16SS101J		
R		(A,148,69)		RS1/16S104J		R 78		(A,65,33)		RS1/16SS101J		
R		(A,151,69)		RAB4C473J		R 79 R 80		(A,64,32) (A,64,33)		RS1/16SS101J RS1/16SS101J		С
R	12	(A,141,66)		RS1/16S105J		R 81		(A,63,32)		RS1/16SS101J		-
R	13	(A,139,66)		RS1/16S151J				(71,00,02)		1101/10001010		
R		(B,143,33)		RS1/16S0R0J		R 82		(A,63,33)		RS1/16SS101J		
R		(B,143,36)		RS1/16S0R0J		R 84		(B,80,36)		RS1/16SS562J		
R		(A,117,67)		RS1/16S473J		R 85		(B,82,30)		RS1/16SS103J		
R	20	(A,131,68)		RS1/16S101J		R 87		(B,156,62)		RS1/16S104J		
						R 88		(B,128,47)		RS1/16S104J		
R:		(A,134,65)		RS1/16S101J		D 00		(P 120 45)		RS1/16S0R0J		
R		(A,132,68)		RS1/16S101J		R 89		(B,132,45) (B,132,44)		RS1/16S0R0J		
R :		(B,133,58) (B,133,61)		RS1/16S105J RS1/16S151J		R 93		(B,130,43)		RS1/16S153J		
R		(A,130,68)		RS1/16S101J		R 94		(B,134,43)		RS1/16S153J		
	20	(7,100,00)		1101/1001010		R 95		(B,130,48)		RS1/16S153J		D
R	26	(A,134,68)		RS1/16S101J								
R		(A,130,65)		RS1/16S101J		R 96		(B,130,47)		RS1/16S153J		
R		(A,133,65)		RS1/16S101J		R 97		(A,118,55)		RS1/16S473J		
R		(A,129,65)		RS1/16S101J		R 98		(A,155,60)		RS1/16S473J		
R :	30	(A,128,65)		RS1/16S101J		R 10		(B,102,35)		RS1/16S473J RS1/16S473J		
_	0.4	(4.400.00)		D04/400404 I		ח וט	2	(B,102,20)		NO 1/1004/3J		
R :		(A,128,68) (B,133,52)		RS1/16S101J RS1/16S473J		R 10	3	(B,101,58)		RS1/16S473J		
R :		(A,127,68)		RS1/16S473J		R 10		(A,131,21)		RS1/16S220J		
R		(B,154,49)		RS1/16S105J		R 15	1	(B,127,31)		RS1/16S0R0J		
R		(A,123,47)		RS1/16S104J		R 15		(B,158,34)		RS1/16S0R0J		
		, , ,				R 15	3	(B,142,43)		RS1/16S471J		Е
R :	36	(A,122,58)		RS1/16S101J				(4 (() =)		50.44.50.450.4		_
R :		(A,122,59)		RS1/16S101J		R 15		(A,116,55)		RS1/16S473J		
R :		(A,122,61)		RS1/16S101J		R 15		(A,113,55) (A,105,65)		RS1/16S473J RS1/16S473J		
R :		(A,122,62)		RS1/16S101J		R 15		(A,105,65) (A,118,51)		RS1/16S473J		
R	40	(A,122,45)		RS1/16S470J		R 15		(B,126,56)		RS1/16S473J		
R	45	(B,126,54)		RS1/16S104J			-	,=,:=0,00/				
R		(B,126,60)		RS1/16S104J		R 16	0	(A,119,60)		RS1/16S473J		
R		(B,126,46)		RS1/16S104J		R 16	1	(A,105,68)		RS1/16S103J		
R		(B,155,64)		RS1/16S104J		R 16		(B,131,56)		RS1/16S473J		
R ·		(B,156,64)		RS1/16S104J		R 16		(A,122,57)		RS1/16S560J		
						R 16	4	(A,112,65)		RS1/16S473J		
R		(B,158,64)		RS1/16S104J		D 10	5	(A 122 69)		RS1/16S473J		F
R		(B,80,24)		RS1/16SS101J		R 16		(A,122,68) (A,104,68)		RS1/16S473J		
R :		(B,80,25) (B,80,26)		RS1/16SS101J RS1/16SS101J		R 16		(A,104,00) (A,117,63)		RS1/16S473J		
r :	00	(0,00,20)		1000101J		R 17		(A,107,65)		RS1/16S473J		
					AVIC-D3							
		5	_	6	- AVIC-D3/	NO/U		7		8	141	
		-	_	Ŭ						Ŭ		

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	Cir	cuit Symbol and No.	Part No.		Circuit Symbol and No.	Part No.
	R 171	(A,109,65)	RS1/16S473J	R 36		RS1/16SS473J
	R 172	(A 100 CE)	DC4/4004701	D 00	CC (D.07.40)	RS1/16SS473J
Α	R 174	(A,108,65) (A,122,66)	RS1/16S473J RS1/16S473J	R 36 R 36	, , ,	RS1/16SS473J
А	R 174	(A,122,60) (A,122,67)	RS1/16S473J	R 36		RS1/16SS473J
	R 176	(A,122,57) (A,122,55)	RS1/16S0R0J	R 36		RS1/16SS473J
	R 177	(A,117,64)	RS1/16S473J	R 37		RS1/8S0R0J
	R 180	(A,145,65)	RS1/16S101J	R 62	29 (A,120,83)	RS1/16S681J
	R 181	(A,114,55)	RS1/16S473J	R 78	,	RS1/16S0R0J
	R 182	(A,117,55)	RS1/16S473J	R 20		RS1/16S0R0J
	R 183	(A,114,62)	RS1/16S473J	R 20	` ' ' '	RS1/16S0R0J
	R 184	(A,114,58)	RS1/16S473J	R 20		RS1/16S0R0J
	R 185	(A,112,62)	RS1/16S473J	R 20		RS1/16S0R0J
_	R 186	(A,113,58)	RS1/16S473J	R 20	· · · · · ·	RS1/16S0R0J
В	R 187	(A,112,58)	RS1/16S473J	R 20	· · · · /	RS1/16S0R0J
	R 188	(A,107,68)	RS1/16S473J	R 20		RS1/16S0R0J
	R 189	(A,108,68)	RS1/16S473J	R 20	007 (A,22,11)	RS1/16S0R0J
	R 190	(A,109,68)	RS1/16S473J	R 20	008 (B,22,21)	RS1/16S0R0J
	R 191	(B,126,63)	RS1/16S473J	R 20	009 (B,26,31)	RS1/16S0R0J
	R 192	(A,113,62)	RS1/16S473J	R 20	010 (B,23,24)	RS1/16S0R0J
-	R 193	(A,123,64)	RS1/16S473J	R 20		RS1/16S0R0J
	R 194	(A,146,67)	RS1/16S390J	R 20	012 (B,24,21)	RS1/16S0R0J
	R 196	(A,112,68)	RS1/16S473J	R 20	014 (B,24,24)	RS1/16S0R0J
	R 198	(A,124,63)	RS1/16S473J	R 20		RS1/16S0R0J
	R 201	(A,120,40)	RN1/16SE1502D	R 20		RS1/16S0R0J
С	R 202	(A,120,39)	RN1/16SE1202D	R 20		RS1/16S0R0J
	R 210	(A,99,41)	RS1/16S104J	R 20	018 (B,26,24)	RS1/16S0R0J
	R 211	(A,97,41)	RS1/16S104J	R 20	019 (A,26,11)	RS1/16S0R0J
	R 212	(A,90,42)	RS1/16S104J	R 20	,	RS1/16S0R0J
	R 213	(A,88,42)	RS1/16S104J	R 20		RS1/16S0R0J
	R 217	(A,121,35)	RS1/16S272J	R 20		RS1/16S0R0J
	R 220	(A,122,7)	RS1/16S223J	R 20		RS1/16S0R0J
	R 221	(A,121,25)	RS1/16S105J	R 20	024 (B,28,21)	RS1/16S0R0J
	R 222	(A,122,16)	RS1/16S151J	R 20		RS1/16S0R0J
	R 224	(A,79,15)	RS1/16S0R0J	R 20		RS1/16S0R0J
	R 225	(A,117,8)	RS1/16S104J	R 20		RS1/16S0R0J
D	R 226	(A,118,8)	RS1/16S104J	R 20	028 (B,30,21)	RS1/16S0R0J
	R 227	(A,79,18)	RS1/16S104J	R 20	029 (A,30,16)	RS1/16S0R0J
	R 228	(A,80,18)	RS1/16S104J	R 20		RS1/16S0R0J
	R 229	(B,115,15)	RS1/16S560J	R 20		RS1/16S0R0J
	R 230	(A,80,12)	RS1/16S104J	R 20		RS1/16S0R0J
	R 232	(A,82,12)	RS1/16S104J	R 20		RS1/16S0R0J
	R 237	(B,112,15)	RS1/16S104J	R 20	034 (A,32,11)	RS1/16S0R0J
	R 238	(B,114,15)	RS1/16S330J	R 20	,	RS1/16S0R0J
	R 240	(A,114,7)	RS1/16S104J	R 20		RS1/16S0R0J
	R 301	(A,136,18)	RS1/16S123J	R 20		RS1/16S0R0J
Е	R 302	(A,136,21)	RS1/16S103J	R 20		RS1/16S0R0J
	R 303	(A,137,15)	RS1/16S473J	R 20	039 (B,34,21)	RS1/16S0R0J
	R 320	(A,106,56)	RS1/16S103J	R 20		RS1/16S0R0J
	R 329	(A,110,49)	RS1/16SS821J	R 20		RS1/16S0R0J
	R 330	(A,110,52)	RS1/16SS221J	R 20		RS1/16S0R0J
	R 331	(A,110,51)	RS1/16SS221J	R 20		RS1/16S0R0J
	R 332	(A,110,50)	RS1/16SS472J	R 20		RS1/16S0R0J
	R 349	(B,156,43)	RS1/16S473J	R 20		RS1/16S0R0J
	R 350	(B,147,42)	RS1/16S473J	R 20	046 (A,37,11)	RS1/16S0R0J
	R 356	(A,109,55)	RS1/16S0R0J	R 20		RS1/16S0R0J
_	R 360	(B,97,59)	RS1/16SS473J	R 20	048 (A,37,16)	RS1/16S0R0J
F	R 361	(B,97,46)	RS1/16SS473J	R 20	049 (B,14,19) (EW5)	RS1/16S0R0J
	R 362	(B,97,58)	RS1/16SS473J	R 20	, , , , ,	RS1/16S0R0J
	R 363	(B,97,47)	RS1/16SS473J	R 20	051 (B,17,18) (EW5)	RS1/16S0R0J
	R 364	(B,97,51)	RS1/16SS473J	R 20	052 (A,39,16)	RS1/16S0R0J
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Cir	cuit Symbol and No.	Part No.		Circ	uit Symbol ar	nd No	Part No.		
R 2053	(B,14,17) (EW5)	RS1/16S0R0J		R 2119	(B,31,60)	<u></u>	RS1/16S104J		
H 2000	(D,14,17) (EVV3)	NO 1/1030N00		n 2119	(0,31,00)		N3 1/ 103 1043		
R 2054	(A,40,11)	RS1/16S0R0J		R 2120	(B,15,60)		RS1/16S681J		
R 2055	(B,17,16) (EW5)	RS1/16S0R0J		R 2121	(B,37,54)		RAB4C0R0J	Α	
R 2056	(A,40,16)	RS1/16S0R0J		R 2122	(A,26,54)		RS1/16S681J		
R 2057	(B,36,24)	RS1/16S0R0J		R 2123	(B,20,61)		RS1/16S220J		
R 2058	(A,41,11)	RS1/16S0R0J		R 2124	(B,18,60)		RS1/16S220J		
R 2059	(B,37,21)	RS1/16S0R0J		R 2125	(B,17,61)		RS1/16S220J		
R 2060	(A,42,16)	RS1/16S0R0J		R 2126	(A,28,56)		RS1/16S0R0J		
R 2061	(B,38,24)	RS1/16S0R0J		R 2127	(B,43,58)		RS1/16S473J	_	
R 2062	(A,43,11)	RS1/16S0R0J		R 2129	(B,34,63)		RS1/16S104J		
R 2063	(B,39,21)	RS1/16S0R0J		R 2130	(B,26,64)		RAB4C104J		
R 2064	(A,43,16)	RS1/16S0R0J		R 2132	(B,15,61)		RS1/16S103J		
R 2065	(B,40,25)	RS1/16S0R0J		R 2135	(B,30,63)		RS1/16S103J		
R 2066	(B,59,28)	RS1/16S0R0J		R 2137	(B,28,60)		RS1/16S103J	В	
R 2067	(B,41,21)	RS1/16S0R0J		R 2138	(B,22,66)		RS1/16S102J		
R 2068	(B,65,16)	RS1/16S0R0J		R 2139	(B,37,64)		RS1/16S104J		
11 2000	(0,00,10)	1101/10001100		11 2100	(10,07,04)		1101/1001040		
R 2069	(B,42,21)	RS1/16S0R0J		R 2141	(B,7,131)		RS1/16S104J		
R 2070	(B,64,20)	RS1/16S0R0J		R 2142	(B,8,115)		RS1/16S473J		
R 2071	(B,44,21) (EW5)	RS1/16S0R0J		R 2143	(B,10,131)		RS1/16S563J	_	
R 2072	(B,65,24)	RS1/16S0R0J		R 2144	(B,9,132)		RS1/16S513J		
R 2073	(B,44,24) (EW5)	RS1/16S0R0J		R 2145	(B,9,121)		RS1/16S104J		
					,				
R 2074	(A,47,11)	RS1/16S0R0J		R 2146	(B,9,118)		RS1/16S513J		
R 2075	(B,45,22) (EW5)	RS1/16S0R0J		R 2147	(B,11,121)		RS1/16S513J		
R 2076	(A,48,16)	RS1/16S0R0J		R 2148	(B,6,120)		RS1/16S102J	_	
R 2077	(B,46,24) (EW5)	RS1/16S0R0J		R 2149	(B,6,117)		RS1/16S102J	С	
R 2078	(A,29,65)	RS1/16S104J		R 2150	(A,49,23)		RS1/16S102J		
	(5.15.54)				(4.45.45)		D0.//.0000D0.		
R 2079	(B,15,34)	RS1/16S104J		R 2151	(A,18,42)		RS1/16SS0R0J		
R 2081	(B,43,25)	RS1/16S471J		R 2152	(A,20,44)		RS1/16SS0R0J		
R 2082	(B,41,25)	RS1/16S471J		R 2157	(A,47,23)		RS1/16S104J		
R 2083	(B,36,30)	RS1/16S471J		R 2160	(B,10,44)		RS1/16SS0R0J		
R 2084	(B,22,31) (EW5)	RS1/16S223J		R 2162	(B,12,119)		RS1/16S564J		
R 2085	(B,23,33) (EW5)	RS1/16S681J		R 2163	(B,14,115)		RS1/16S202J		
R 2086	(B,27,31) (EW5)	RS1/16S681J		R 2164	(B,11,115)		RS1/16S822J		
R 2087	(B,31,30)	RAB4C104J		R 2166	(B,15,123)		RS1/16S203J		
R 2088	(B,16,28)	RS1/16S472J		R 2169	(B,15,120)		RS1/16S333J		
R 2089	(A,13,31)	RS1/16S102J		R 2172	(A,25,24)		RS1/16S101J	D	
	(, -,- ,				(, -, ,				
R 2090	(B,19,31)	RS1/16S472J		R 2173	(A,28,21)		RS1/16S471J		
R 2091	(B,6,45)	RS1/16S104J		R 2174	(A,30,23)		RS1/16S103J		
R 2093	(B,22,29)	RS1/16S102J		R 2177	(A,31,21)		RS1/16S272J		
R 2094	(B,24,28)	RS1/16S473J		R 2182	(B,42,119)		RS1/16S472J		
R 2095	(B,8,45)	RS1/16S104J		R 2183	(B,46,124)		RS1/16S103J		
D 0000	(A 26 40)	D01/1601041		D 0105	(P 20 100)		D01/1601001		
R 2096	(A,36,48)	RS1/16S104J		R 2185	(B,32,120)		RS1/16S103J		
R 2097 R 2098	(B,37,39) (B,37,40)	RS1/16S102J RS1/16S103J		R 2187 R 2188	(B,7,20) (B,35,117)		RS1/16S102J RS1/16S512J		
R 2099	(B,36,43) (EW5)	RAB4C681J		R 2189	(B,43,122)		RS1/16S224J		
R 2100	(B,8,47)	RS1/16S220J		R 2190	(B,37,123)		RS1/16S472J		
11 2100	(0,0,47)	1101/1002200		11 2150	(0,07,120)		1101/1004/20	Е	
R 2101	(B,8,48)	RS1/16S220J		R 2191	(A,45,23)		RS1/16S393J		
R 2102	(B,40,43) (EW5)	RAB4C223J		R 2192	(A,45,20)		RS1/16S514J		
R 2103	(B,37,49)	RAB4C681J		R 2193	(B,45,120)		RS1/10S221J		
R 2104	(A,45,16)	RS1/16S822J		R 2194	(B,32,123)		RS1/4S471J		
R 2105	(A,46,11)	RS1/16S822J		R 2196	(A,43,21)		RS1/16S472J		
R 2107	(B,37,59)	RS1/16S104J		R 2197	(A,41,21)		RS1/16S104J		
R 2108	(B,10,56)	RS1/16S220J		R 2198	(A,40,20)		RS1/16S472J		
R 2110	(B,38,59)	RS1/16S104J		R 2228	(A,9,63)		RS1/16S104J		
R 2111	(B,11,59)	RS1/16S220J		R 2229	(A,9,61)		RS1/16S202J		
R 2113	(B,40,59)	RS1/16S104J		R 2232	(B,18,94)		RS1/16S104J		
D 0444	(D.0.50)	D04/4004047		D 0040	(D 10 00)		D04/4004004D	F	
R 2114	(B,8,50)	RS1/16S104J		R 2242	(B,12,92)		RS1/16S1001D		
R 2115	(B,10,53)	RS1/16S104J		R 2244	(B,14,93)		RS1/16S1001D		
R 2116 R 2118	(B,26,60) (B,41,59)	RS1/16S102J RS1/16S104J		R 2247 R 2266	(B,17,92) (A,29,113)		RS1/16S1101D RS1/16S0R0J		
n 2110	(5,41,03)	по I/ 100 10 4 J			(M, 23, 113)		173 1/ 10301700		
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	Circ	uit Symbol and No.	Part No.		Circ	uit Symbol and No.	Part No.
	R 2272	(A,29,111)	RS1/16S0R0J	F	3.1.5. R 2503	(B,58,47)	RS1/16S0R0J
	11 2272	(71,20,111)	1101/10001100		1 2000	(5,50,47)	1101/10001100
	R 2274	(A,128,90)	RS1/16S103J	F	R 2504	(B,56,46)	RS1/16S1800D
Α	R 2277	(B,114,102)	RS1/16S101J		R 2505	(B,53,46)	RS1/16S1801D
	R 2278	(B,113,99)	RS1/16S101J		R 2506	(B,51,47)	RS1/16S1001D
	R 2279	(B,113,102)	RS1/16S101J		R 2507	(B,58,66)	RS1/16S0R0J
	R 2280	(B,112,99)	RS1/16S101J	F	R 2508	(B,56,67)	RS1/16S3900D
	R 2281	(B,111,102)	RS1/16S101J	F	R 2509	(B,53,67)	RS1/16S4701D
	R 2282	(B,110,99)	RS1/16S101J		R 2510	(B,51,66)	RS1/16S1001D
	R 2285	(A,7,29)	RS1/16S472J	F	R 2511	(B,53,47)	RS1/16S122J
	R 2286	(B,65,18)	RS1/10S1000F		R 2512	(B,53,66)	RS1/16S132J
	R 2287	(B,62,17)	RS1/16S100J	F	R 2513	(B,51,82)	RS1/16S331J
	R 2288	(A,82,119)	RS1/16S221J	_	R 2514	(B,80,100)	RS1/10S0R0J
	R 2289	(B,68,16)	RS1/16S102J		R 2515	(B,79,97)	RS1/16S5600D
В	R 2290	(B,62,16)	RS1/16S0R0J		R 2516	(B,79,94)	RS1/16S2401D
	R 2291	(A,83,117)	RS1/16S621J		R 2517	(B,79,92)	RS1/16S1601D
	R 2292	(A,8,26)	RS1/16S101J	F	2518	(B,52,49)	RS1/16S332J
	R 2293	(A,6,26)	RS1/16S101J		2519	(B,52,52)	RS1/16S104J
	R 2295	(A,83,114)	RS1/16S473J		R 2520	(B,50,80)	RS1/16S0R0J
	R 2296	(B,65,22)	RS1/10S1000F		2521	(B,50,82)	RS1/16S5600D RS1/16S8201D
	R 2297 R 2298	(B,61,21) (B,67,20)	RS1/16S100J RS1/16S102J		R 2522 R 2523	(B,50,85) (B,50,87)	RS1/16S6201D RS1/16S1501D
	11 2290	(0,07,20)	1131/1031020	'	1 2320	(0,50,07)	1101/1001001D
	R 2299	(B,61,20)	RS1/16S0R0J	F	R 2524	(B,52,64)	RS1/16S332J
	R 2302	(B,65,26)	RS1/10S1000F	F	R 2525	(B,78,97)	RS1/16S101J
	R 2303	(B,61,25)	RS1/16S100J	F	R 2526	(B,78,77)	RS1/16S332J
С	R 2304	(A,19,26)	RS1/16S102J		R 2527	(B,78,82)	RS1/16S104J
	R 2305	(A,19,23)	RS1/16S101J	F	R 2528	(B,50,102)	RS1/16S332J
	R 2306	(A,19,22)	RS1/16S101J		R 2529	(B,50,98)	RS1/16S104J
	R 2307	(B,68,24)	RS1/16S1010		R 2531	(B,80,85)	RS1/16S473J
	R 2308	(B,62,24)	RS1/16S0R0J		R 2532	(B,73,77)	RS1/16S1503D
	R 2309	(A,21,22)	RS1/16S620J		R 2533	(B,56,102)	RS1/16S1503D
-	R 2310	(A,87,118)	RS1/16S121J	F	R 2534	(B,56,44)	RS1/16S473J
	D 0040	(4 447 400)	D04/400004 I	_	0505	(D. 50, 00)	D04/4004041
	R 2313 R 2314	(A,117,120)	RS1/16S681J RS1/16S681J		R 2535 R 2537	(B,52,62) (B,78,100)	RS1/16S104J RS1/10S100J
	R 2315	(A,116,120) (A,115,120)	RS1/16S681J		R 2538	(B,66,82)	RS1/16S100J
	R 2316	(A,113,120)	RS1/16S681J		R 2540	(B,51,79)	RS1/10S100J
D	R 2317	(A,110,120)	RS1/16S101J		R 2541	(B,57,90)	RS1/16S184J
	R 2318	(A,112,120)	RS1/16S681J		2543	(B,68,55)	RS1/10S150J
	R 2319	(A,111,120)	RS1/16S681J		R 2544	(B,68,59)	RS1/10S150J
	R 2400 R 2401	(B,103,85) (B,102,82)	RS1/10S330J RS1/16S330J		R 2545 R 2546	(B,72,89) (B,56,49)	RS1/16S184J RS1/16S224J
	R 2401	(B,102,81)	RS1/16S330J		R 2547	(B,56,64)	RS1/16S224J
_	11 2402	(5,102,01)	1101/100000		1 2047	(15,505,04)	1101/1002240
	R 2405	(B,105,85)	RS1/16S102J	F	R 2548	(B,63,98)	RS1/16S100J
	R 2406	(B,101,85)	RS1/16S103J		R 2549	(A,79,87)	RS1/16S105J
	R 2410	(B,102,79)	RS1/16S392J		R 2550	(A,57,105)	RS1/16S105J
	R 2413	(A,94,106)	RS1/16S0R0J		2552	(A,26,62)	RS1/16S104J
Ε	R 2414	(A,59,73)	RS1/4SA561J	F	R 2553	(B,58,42)	RS1/4S101J
	R 2416	(B,38,114)	RS1/16S222J	F	R 2554	(A,81,66)	RS1/4S221J
	R 2419	(B,54,119)	RS1/4S182J		R 2555	(B,70,74)	RS1/16S8203D
	R 2420	(A,42,91)	RS1/16S473J	F	R 2556	(B,57,104)	RS1/16S8203D
	R 2423	(B,38,110)	RS1/16S682J		R 2557	(B,125,23)	RS1/16SS0R0J
	R 2424	(A,39,95)	RS1/16S103J	F	R 2558	(B,49,112)	RS1/16S104J
	R 2426	(A,40,84)	RS1/16S104J	F	R 2559	(B,52,116)	RS1/16S104J
	R 2427	(B,36,111)	RS1/16S332J		R 2560	(A,7,59)	RS1/16S0R0J
	R 2428	(A,42,96)	RS1/16S103J		R 2561	(A,146,81) (EW5)	RS1/16S0R0J
	R 2430	(A,108,85)	RS1/10S0R0J		R 2562	(A,146,79) (UC)	RS1/16S0R0J
	R 2431	(A,72,119)	RS1/10S0R0J		R 2564	(B,4,45)	RS1/16S473J
F	D 6 10 -	(A 00 07)	D04//20===:	F	R 2565	(B,32,24)	RS1/16S0R0J
	R 2432	(A,29,67)	RS1/10S0R0J	_	0.0507	/A 107.00\	D04/000D0 !
	R 2433 R 2434	(A,29,71)	RS1/10S0R0J RS1/10S0R0J		R 2567 R 2568	(A,107,89) (B,28,65)	RS1/8S0R0J RS1/16S472J
	R 2434 R 2435	(A,27,71) (A,22,66)	RS1/10S0R0J		R 2568	(B,28,65) (A,27,46)	RS1/16S472J RS1/16S0R0J
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	Circuit Symbol ar	nd No.	Part No.		Circuit Symbo	l and No.	Part No.	
R 25	•		RS1/16S104J					
R 25			RS1/16S104J	Сз	8 (A,131,32)		CKSQYB106K6R3	
11 20	(0,0,10)		1101/1001040	C 3			CKSRYB104K16	
R 25	575 (B,126,38)		RS1/16SS0R0J	C 4			CKSRYB104K16	Α
R 25	,		RS1/16S473J	C 4			CKSRYB104K16	
R 25			RS1/16S104J	C 4			CKSRYB104K16	
R 25			RS1/16S104J	0 .	(5,107,11)		OKOKI BIO IKIO	
R 25			RS1/16S104J	C 4	4 (B,133,56)		CKSRYB104K16	
11 20	(0,20,04)		1101/1001040	C 4			CKSRYB104K16	
R 25	585 (B,41,67)		RS1/16S0R0J	C 4			CKSRYB104K16	_
R 25			RS1/10S0R0J	C 5			CKSRYB224K10	
R 25			RS1/16S472J	C 5			CCSRCH121J50	
R 25			RS1/16S472J	0.0	(0,00,07)		00011011121000	
R 25			RS1/16S472J	C 5	5 (B,144,44)		CKSRYB104K16	
11 20	(0,0,00)		1101/1004/20	C 5			CKSRYB104K16	
R 25	590 (B,8,28)		RS1/16S472J	C 6			CKSRYB104K16	
R 25		<i>(</i> 5)	RS1/16S0R0J	C 6			CKSRYB104K16	В
R 25			RS1/16S0R0J	C 6			CKSRYB104K16	
R 25)	RS1/16S104J		(Б, 154,51)		CRONIDIO4RIO	
				0.0	(D 154 54)		OKCD/D104K1C	
R 25			RS1/16S104J	C 6			CKSRYB104K16	
R 25	596 (A,128,86)		RS1/16S471J	C 6		00 · F	CKSQYB106K6R3	
	(4 (22 22)		50.//.00.01.1	C 6			CCG1178	
R 25			RS1/16S101J	C 6			CCG1178	
R 27			RS1/16SS101J	C 7	(A,126,29)	22 µF	CCG1178	_
R 27			RS1/16S0R0J					
R 27			RS1/10S0R0J	C 7			CKSRYF103Z50	
R 27	776 (B,57,27)		RS1/16SS473J	C 7			CKSRYF103Z50	
				C 7			CKSRYF104Z25	
CAP	ACITORS			C 7	(B,154,61)		CKSRYF104Z25	
				C 7	(A,152,17)		CKSRYF104Z25	С
C 1	(B,128,18)		CKSRYB104K16					
C 2	(B,127,21)		CKSRYB104K16	C 7	6 (B,127,27)		CKSRYB103K16	
C 3	(B,127,24)		CKSRYB104K16	C 7			CKSRYB103K16	
C 4	(B,127,29)		CKSRYB104K16	C 7			CKSRYB103K16	
C 5	(B,127,41)		CKSRYB104K16	C 7			CKSRYB103K50	
0 0	(0,127,41)		OKOITI DIOTKIO	C 8			CKSRYB103K50	•
C 6	(A,148,36)		CKSRYB104K16		(=,,,			
	(A,146,36) (A,152,44)			C 8	(B,143,39)		CKSRYB224K10	
C 7			CKSRYB104K16	C 8			CKSRYB103K50	
C 8	(A,152,49)		CKSRYB104K16	C 9			CKSRYB224K10	
C 9	(A,152,52)		CKSRYB104K16	C 9			CKSRYB224K10	
C 10	(A,152,55)		CKSRYB104K16	C 9			CKSRYB224K10	
0.44	(4.450.00)		01(00)(04041(40	U s	(B, 100,29)		UNSH1 D224K10	D
C 11			CKSRYB104K16	C 1	01 (4.107.17)		CKSRYB104K16	
C 12			CKSQYB106K6R3		, , ,			
C 13			CKSRYB104K16	C 1			CKSRYB104K16	
C 14	· · · · · ·		CKSRYB104K16	C 1	• • • •		CKSRYB104K16	
C 15	(A,143,35)		CKSRYB104K16	C 1	(' ' '		CKSRYB104K16	
				C 1	05 (A,152,29)		CKSRYB104K16	_
C 16	6 (A,141,35)		CKSRYB104K16	_				
C 17	(A,143,66)		CKSRYB104K16	C 1	, , ,		CKSRYB104K16	
C 18	3 (A,141,68)		CCSRCH100D50	C 1			CKSRYB104K16	
C 19	(A,138,68)		CCSRCH100D50	C 1	• • • •		CKSRYB104K16	
C 20	(B,145,17)		CKSRYB104K16	C 1	, , ,		CKSRYB104K16	
	• • •			C 1	10 (B,102,42)		CKSQYB106K6R3	
C 21	(B,144,21)		CKSRYB104K16					Е
C 22			CKSRYB104K16	C 1			CKSRYB104K16	_
C 23			CKSRYB104K16	C 1	12 (B,102,34)		CKSRYF224Z16	
C 24			CKSRYB104K16	C 1	13 (B,102,26)		CKSQYB106K6R3	
C 25			CKSRYB104K16	C 1			CKSRYB104K16	
0 20	(11,107,00)		OROTH BTO-IRTO	C 1			CKSRYF224Z16	
C 26	(A,137,65)		CKSRYB104K16		(, , , ,			
C 27			CKSQYB106K6R3	C 1	16 (B,115,64)		CKSRYF104Z25	
C 28			CKSRYB104K16	C 1	, , ,		CKSQYB106K6R3	_
				C 1	, , ,		CKSRYB104K16	
C 29			CKSRYB104K16	C 1			CKSRYF104Z25	
C 30	(A,154,18)		CKSRYF104Z25	C 1			CKSRYF104Z25	
<u> </u>	(D 400 =0)		000000100000	U I	(۵,۱۷۵,۵۱)		JNJ1111 104223	
C 31			CCSRCH9R0D50	<u>^</u> 1	01 /D 105 50\		CKCDVE10470F	
C 32			CCSRCH9R0D50	C 1			CKSRYF104Z25	F
C 33			CKSRYB104K16	C 1	, , , , ,		CKSRYF104Z25	
C 35			CKSRYB104K16	C 1	, , , , ,		CKSRYF103Z50	
C 36	(A,126,64)		CKSRYB104K16	C 1	, , ,		CCSRCH101J50	
				C 1	25 (A,162,33)		CKSRYF104Z25	
				AVIC-D3/XU/	UC			1.45
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	Circ	cuit Symbol and No.	Part No.		Circ	uit Symbol and No.	Part No.
	C 126	(A,162,49)	CKSRYF104Z25		C 328	(A,100,50)	CKSRYB104K16
Α	C 201 C 202	(A,120,37) (A,115,42)	CKSRYB104K16 CKSRYB104K16		C 329 C 341	(A,99,50) 10 μF	CCG1203 CCSRCH101J50
А	C 202	(A,113,42) (A,113,42)	CKSRYB104K16		C 341	(A,156,18) (A,136,13)	CKSRYF104Z25
	C 204	(A,118,37)	CKSRYB104K16		C 344	(B,142,11)	CKSRYF103Z50
	C 205	(A,107,42)	CKSRYB104K16		C 345	(B,140,11)	CKSRYF104Z25
	C 206	(A,102,41)	CKSRYB104K16		C 346	(B,126,11)	CKSRYF103Z50
	C 207	(A,96,41)	CKSRYB104K16		C 347	(B,115,9)	CKSRYF103Z50
	C 208 C 209	(A,92,42) (A,83,37)	CKSRYB104K16 CKSRYB104K16		C 348 C 349	(B,114,8) (B,92,7)	CKSRYF104Z25 CKSRYF103Z50
	C 211	(A,118,34)	CKSRYB104K16		C 1917	(A,76,52) 330 μF/6.3 V	CCH1366
	C 213	(A,118,31)	CKSRYB104K16		C 1918	(A,76,61) 330 µF/10 V	CCH1623
_	C 214	(A,119,32)	CKSRYB104K16		C 1925	(A,58,48) 27 μF/20 V	CCH1744
В	C 215	(A,83,35)	CKSRYB104K16		C 1941	(A,58,77) 220 μF/10 V	CCH1409
	C 216	(A,83,31)	CKSRYB104K16		C 1998	(A,68,102) 330 μF/6.3 V	CCH1366
	C 217 C 220	(A,83,30) (A,121,32)	CKSRYB104K16 CKSQYB106K6R3		C 2000 C 2001	(B,40,73) (A,36,72)	CKSRYB104K25 CKSRYB104K25
	C 220	(A,121,32) (A,118,29)	CKSRYB104K16		C 2001	(A,36,72) (A,42,71)	CKSRYF104Z25
	C 222	(A,118,26)	CKSRYB104K16		C 2003	(A,34,72)	CKSRYF104Z25
	C 223	(A,120,8)	CKSRYB224K10		C 2004	(A,36,39)	CKSRYB104K16
	C 224	(A,118,24)	CKSRYB104K16		C 2005	(A,12,40)	CKSRYB104K16
	C 225	(A,120,28)	CKSRYB104K16		C 2006	(A,16,31)	CKSRYB153K50
	C 227	(A,83,28)	CKSRYB104K16		C 2007	(A,20,34)	CKSRYB104K16
С	C 228 C 230	(A,83,24) (A,123,25)	CKSRYB104K16 CCSRCH150J50		C 2008 C 2010	(A,36,68) (B,36,36)	CKSRYF104Z25 CKSRYB104K16
	C 231 C 232	(A,123,16)	CCSRCH120J50 CKSRYB104K16		C 2011 C 2012	(B,18,33)	CKSRYB104K50 CKSRYB105K10
	C 232	(A,118,21) (A,118,18)	CKSRYB104K16		C 2012	(B,34,34) (A,31,46)	CKSRYB104K16
	C 234	(A,83,19)	CKSRYB104K16		C 2014	(A,13,36)	CKSRYB104K16
	C 235	(A,84,18)	CKSRYB104K16		C 2015	(B,10,38)	CCSRCH7R0D50
	C 237	(A,119,15)	CKSRYB104K16		C 2016	(B,10,36)	CCSRCH6R0D50
	C 238	(A,119,13)	CKSRYB104K16		C 2017	(A,31,38)	CKSRYB104K50
	C 239 C 240	(A,84,16) (A,84,14)	CKSRYB104K16 CKSRYB104K16		C 2018 C 2019	(A,39,44) (B,40,46)	CKSRYB104K16 CKSRYB104K16
D	C 241	(A,84,12)	CKSRYB104K16		C 2020	(B,9,56)	CKSRYB104K16
D	C 242	(A,112,7)	CKSRYB104K16		C 2023	(B,24,61)	CKSRYB104K16
	C 243	(A,108,7)	CKSRYB104K16		C 2024	(B,34,61)	CKSRYB104K16
	C 244	(A,105,7)	CKSRYB104K16		C 2025	(B,31,63)	CKSRYB104K16
	C 245	(A,102,7)	CKSRYB104K16		C 2028	(B,34,60)	CKSRYB104K16
	C 246	(A,98,7)	CKSRYB104K16		C 2029	(B,5,122)	CKSRYB104K50
	C 247	(A,94,7)	CKSRYB104K16		C 2030	(B,9,119)	CKSRYB102K50
	C 248	(A,89,7)	CKSRYB104K16		C 2033	(B,13,123)	CKSRYB104K50
	C 249 C 250	(A,85,9) (A,104,42)	CKSQYB106K6R3 CKSQYB106K6R3		C 2034 C 2035	(B,12,125) (B,14,125)	CKSRYB103K50 CKSRYB823K16
	C 251	(A,120,25)	CKSQYB106K6R3		C 2037	(B,45,124)	CKSRYB104K50
Ε	C 252	(A,85,42)	CKSQYB106K6R3		C 2038	(B,7,23)	CKSRYB104K50
	C 253	(A,121,13)	CKSRYF104Z25		C 2040	(B,37,124)	CKSRYB472K50
	C 255	(A,83,33)	CKSRYB103K50		C 2041	(B,4,25)	CKSRYB104K50
	C 256	(A,83,27)	CKSRYB103K50		C 2043	(B,28,129)	CKSRYB103K50
	C 257	(A,83,25)	CKSRYB103K50		C 2044	(B,28,131)	CKSRYB103K50
	C 258 C 259	(A,83,22) (A,83,21)	CKSRYB103K50 CKSRYB103K50		C 2091 C 2093	(A,46,113) (A,46,121)	CEVW470M16 CEVW101M16
	C 259	(A,84,15)	CKSRYB103K50		C 2093	(A,46,121) (B,117,99)	CSZSR330M10
	C 261	(B,81,8)	CKSRYB103K50		C 2151	(A,99,88)	CEVW101M16
	C 262	(B,79,8)	CKSRYB103K50		C 2168	(A,77,42)	CSZSR101M6R3
F	C 301	(A,137,21)	CKSRYF104Z25		C 2170	(A,23,76)	CEVW100M16
	C 302	(A,144,21)	CKSRYB334K10		C 2205	(A,12,62)	CKSRYB104K50
	C 303 C 306	(A,138,12) (A,116,48)	CKSRYF104Z25 CKSRYF104Z25		C 2206 C 2207	(B,12,102) (B,18,97)	CKSRYB102K50 CKSRYB102K50
	C 306	(A,116,48) (A,103,56)	CKSQYB106K6R3		C 2207	(B,18,97) (B,19,102)	CKSRYB102K50
	146		AVIC-	D3/XU/U			
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Circ	cuit Symbol and No.	Part No.		Circ	uit Symbol and No.	Part No.	
C 2210	(A,11,60)	CKSRYB474K16		2515	(B,76,77)	CKSRYB473K50	
C 2225	(A,40,109)	CKSRYB104K50		2516	(B,74,77) 30 pF	CCG1252	٨
C 2227	(A,149,113)	CEVW100M16		2517	(B,71,77)	CKSRYB105K10	Α
C 2235 C 2236	(A,125,90) (A,29,83)	CKSRYB104K50 CEVW101M16		2518 2519	(B,53,102) (B,54,102) 30 pF	CKSRYB473K50 CCG1252	
0 2200	(71,20,00)	OLVWIONWIO	Ü	2010	(D,04,102) 00 pi	0001202	
C 2237	(B,118,101)	CKSRYB105K6R3	С	2520	(B,57,102)	CKSRYB105K10	
C 2238	(B,121,107)	CKSQYB105K16		2521	(B,52,53)	CKSRYB473K50	
C 2239	(B,120,102)	CKSQYB105K16		2522	(B,52,56)	CKSRYB105K10	
C 2240	(B,116,102)	CKSQYB105K16		2523	(B,52,60)	CKSRYB473K50	_
C 2241	(B,59,29)	CKSRYB104K16	C	2524	(B,67,78) 4.7 μF	CCG1111	
C 2242	(B,119,115)	CKSQYB105K16	С	2525	(B,78,85)	CKSQYB475K10	
C 2243	(B,123,111)	CKSQYB105K16		2526	(B,57,89)	CKSRYF104Z25	
C 2244	(A,83,116)	CCSRCH150J50		2527	(B,51,95) 4.7 μF	CCG1222	_
C 2245	(A,14,27)	CKSRYB472K50		2528	(B,59,52)	CKSRYF474Z16	В
C 2247	(A,89,114)	CKSRYB104K16	C	2529	(B,64,57) 4.7 μF	CCG1222	
C 2248	(B,108,119)	CKSRYB102K50	С	2530	(B,59,62)	CKSRYF474Z16	
C 2249	(B,110,125)	CKSRYB102K50		2531	(B,75,89)	CKSRYF474Z16	
C 2250	(B,113,125)	CKSRYB102K50		2532	(B,54,90)	CKSRYF474Z16	
C 2251	(B,116,125)	CKSRYB102K50		2533	(B,72,90)	CKSRYB104K16	
C 2252	(B,119,125)	CKSRYB102K50	С	2534	(B,56,50)	CKSRYF104Z25	_
0.0050	/D 100 107\	OKODNO 100KEO	0	0505	(D EC CO)	01/00/15104705	
C 2253 C 2256	(B,122,127) (B,148,127)	CKSRYB102K50 CKSRYB104K50		2535 2536	(B,56,63) (B,61,101) 4.7 μF	CKSRYF104Z25 CCG1222	
C 2400	(A,104,93)	CKSRYB104K50		2537	(B,69,99) 10 μF	CCG1222 CCG1223	
C 2401	(B,78,41)	CKSRYB104K50		2538	(B,69,96) 10 μF	CCG1223	
C 2402	(A,142,102)	CKSRYB104K50		2539	(B,60,81) 4.7 μF	CCG1111	С
C 2404	(A,92,91)	CKSRYB104K16		2542	(B,69,93) 10 μF	CCG1223	
C 2405	(A,100,106)	CKSRYF104Z25		2543	(B,60,84) 4.7 μF	CCG1111	
C 2407 C 2409	(A,101,106) (A,101,104)	CKSRYF103Z50 CKSRYF103Z50		2546 2547	(B,60,87) 4.7 μF (A,61,89) 10 μF	CCG1111 CCG1223	
C 2410	(A, 101, 104) (A, 98, 106)	CKSRYF104Z25		2549	(B,59,77) 4.7 μF	CCG1223 CCG1111	_
0 2110	(71,00,100)	01(01111101220	J	2010	(Σ,00,77) μι	0001111	
C 2411	(A,97,106)	CKSRYF103Z50	С	2640	(B,62,48) 4.7 μF	CCG1111	
C 2412	(A,95,106)	CKSRYF103Z50	С	2641	(B,62,64) 4.7 µF	CCG1111	
C 2413	(A,95,109)	CKSRYB104K50		2644	(B,71,47) 4.7 μF	CCG1111	
C 2414	(B,105,79)	CKSRYB104K50		2645	(B,71,66) 4.7 μF	CCG1111	
C 2415	(A,28,88)	CKSRYB103K50	C	2648	(A,59,54) 10 μF	CCG1223	D
C 2416	(A,21,72)	CKSRYB104K16	С	2650	(A,59,57) 10 μF	CCG1223	
C 2417	(B,63,42)	CCSRCH680J50		2900	(B,122,98)	CKSRYB105K6R3	
C 2418	(A,24,82)	CKSRYB104K16		2903	(A,30,111)	CKSRYB334K10	
C 2419	(A,35,81)	CKSRYB334K10		2908	(B,49,114)	CKSQYB105K10	
C 2422	(A,151,110)	CKSRYB104K16	С	2909	(B,51,9)	CKSRYB104K50	_
C 2423	(A 150 103)	CKSRYB104K16	0	2910	(B,56,10)	CKSRYB104K50	
C 2423	(A,150,103) (B,32,87)	CKSYB105K16		2910	(A,18,30)	CKSRYB104K25	
C 2425	(B,35,100)	CKSYB105K25		2914	(A,41,39)	CKSRYB104K50	
C 2427	(B,33,71)	CKSRYB104K50		2915	(A,93,91)	CKSRYB104K50	
C 2428	(B,34,81)	CKSRYB104K50		2916	(B,55,13) 100 μF/6.3 V	DCH1164	
	(D.50.45)	OKODYD (SS)	-	0000	(4.0.50)	01/05/27	Е
C 2500	(B,56,47)	CKSRYB103K50		2920	(A,9,59)	CKSRYB474K16	
C 2501 C 2502	(B,56,66) (B,51,85)	CKSRYB472K50 CKSRYB103K25		2921 2922	(B,71,24) (B,71,20)	CKSRYB104K16 CKSRYB104K16	
C 2502	(B,54,49)	CCSRCH101J50		2923	(B,71,20) (B,70,16)	CKSRYB104K16	
C 2504	(B,52,50)	CKSRYB224K16	Ü	2020	(5,70,10)	OKOITI DIO TICIO	
	, , ,		E	2			
C 2505	(B,54,64)	CCSRCH221J50			0110704457	110)	
C 2506	(B,52,63)	CKSRYB104K50	Ur	nit Nur	mber: CWX3446(UC)	
C 2507	(B,78,94)	CKSRYB103K25	Ur	nit Nur	mber: CWX3447()	EW5)	
C 2508 C 2509	(B,78,80) (B,51,100)	CCSRCH102J50 CCSRCH101J50		nit Nar	•	-	
2 2000	(=,0.,100)	223131101000	J.				
C 2510	(B,49,53) 15 pF	CCG1240	MI	SCELL.	<u>ANEOUS</u>		F
C 2511	(B,79,80)	CKSRYB104K16					•
C 2512	(B,50,100)	CKSRYB104K50		401	(A,25,16) IC	UPC2749T	
C 2513 C 2514	(B,52,54) 27 pF (B,52,59)	CCG1241 CKSRYB104K50	IC	402	(B,20,27) IC	UPB1027GS	
0 2314	(0,02,03)	OKO111 D 104K00	A) // C D C () //	1/110			
	5 =	6	AVIC-D3/XU	J/UC	7 -	8	147
_		J			_	J	_

	Circ	uit Symbo	ol and No.	Part No.		Circu	it Symbol and No.	Part No.
	IC 441	(A,33,30) I		NJM2100V	R	445	(B,32,33)	RN1/16SE4702D
	IC 461	(B,29,10) I		ADC12H034CIMSAS1		446	(B,30,32)	RN1/16SE4702D
	IC 501	(B,50,25) I		PD3390A			(A,33,25)	RS1/16S432J
Α		(=,==,==,				448	(B,32,30)	RN1/16SE1002D
	IC 502	(B,48,9) IC	(UC)	PEH100A8			(_,,-,	
		(B,48,9) IC	` '	PEH101A8	R	449	(B,33,32)	RN1/16SE2202D
	IC 503	(A,50,29) I		M5M5V216ATP-70HI	R	450	(B,32,32)	RN1/16SE3302D
	IC 504	(A,31,14) I	C	MAX6364PUT29	R	451	(A,29,32)	RS1/16S103J
	IC 532	(A,47,15) I		LC72720YVSS1	R	452	(B,34,27)	RS1/16SS102J
	Q 441	(A,32,22) T	ransistor	2SB1132	R	454	(B,34,26)	RS1/16SS102J
	D 404	(D 44 07) D	N' - d -	10)/01/1	_	400	(D 00 40)	D04/4000D01
	D 401	(B,11,27) D		1SV314		460	(B,22,13)	RS1/16S0R0J
	D 501	(B,35,30) E		RB751V-40		461	(A,37,5)	RS1/16SS102J
	L 401 L 402	(B,12,29) Ir (B,26,22) Ir		CTF1549 LCYC1R2K1608		462 463	(A,38,9) (B,36,12)	RS1/16SS102J RAB4CQ102J
	L 402 L 403	(B,27,26) Ir		LCYC1R2K1608		464	(A,35,12)	RAB4CQ333J
В	L 400	(0,27,20) 11	iduotoi	20101112111000		707	(11,00,12)	11/1040000
	L 404	(A,21,22) Ir	nductor	LCSA3N3R1608	R	465	(A,39,8)	RS1/16SS102J
	L 405	(B,13,24) Ir	nductor	LCYB22NJ1608	R	468	(A,58,8) (EW5)	RS1/16SS471J
	L 406	(B,15,20) Ir	nductor	LCYB22NJ1608	R	469	(A,58,6) (EW5)	RAB4CQ471J
	L 407	(A,19,32) Ir	nductor	CTF1410	R	470	(B,35,7)	RAB4CQ471J
	L 408	(B,26,31) Ir	nductor(UC)	CTF1556	R	471	(B,35,4)	RAB4CQ104J
		(B,26,31) Ir	nductor(EW5)	CTF1410				
_						477	(B,31,17)	RS1/16SS222J
	L 409	(B,19,12) Ir		LCYC1R0K2125		478	(B,30,16)	RS1/16SS222J
	L 410	(B,26,17) Ir		CTF1547		479	(B,28,15)	RS1/16SS222J
	L 412	(A,25,27) Ir		CTF1547		480	(B,29,17)	RS1/16SS332J
	L 413	(A,25,26) Ir		CTF1547	н	481	(B,30,17)	RS1/16SS332J
С	L 414	(A,25,32) Ir	nductor	CTF1547	_	400	(A 00 C)	DC4/40000001
Ü	L 415	(A,26,29) Ir	ndustor	CTF1547		482 483	(A,38,6)	RS1/16SS223J RS1/16SS473J
	L 415 L 416	(A,20,29) II (A,27,28) Ir		CTF1547		501	(A,38,5) (B,39,27)	RS1/16SS0R0J
	L 410 L 417	(B,25,20) Ir		CTF1547		502	(B,38,29)	RS1/16SS102J
	L 418	(A,14,33) Ir		CTF1410		503	(B,39,26)	RS1/16SS154J
	L 441	(B,32,20) Ir		CTF1410		000	(2,00,20)	1101/10001010
		(=,==,==,			R	508	(B,60,14) (UC)	RS1/16SS103J
	L 442	(A,29,25) Ir	nductor	CTF1410			(B,60,14) (EW5)	RS1/16SS472J
	L 461	(A,29,9) Ind	ductor	CTF1410	R	509	(B,34,15)	RS1/16SS473J
	L 462	(A,31,8) Ind	ductor	CTF1410	R		(A,38,7)	RS1/16SS102J
	L 467	(B,33,17) Ir	nductor	CTF1547	R	511	(A,34,19)	RS1/16SS103J
	L 468	(B,32,17) Ir	nductor	CTF1547	R	512	(B,39,30)	RS1/16SS473J
D	1 400	(A 00 44) I		OTE4440	_	540	(D 00 40)	D04/40004001
_	L 469	(A,32,11) Ir		CTF1410		513	(B,60,16)	RS1/16SS103J
	L 501 L 502	(B,38,17) Ir (B,36,32) Ir		CTF1410 CTF1410		514 515	(B,39,29) (A,30,12)	RS1/16SS473J RS1/16SS473J
	L 502 L 503	(B,59,6) Inc		CTF1410		517	(B,39,22)	RS1/16SS103J
	L 504	(B,33,0) III		CTF1410		517	(B,39,21)	RS1/16SS473J
	2 00.	(,1,00,00)	100001	3.1.1.10	• • •	0.10	(2,00,21)	1101/10001/00
	L 531	(A,53,17) Ir	nductor	CTF1410	R	521	(B,37,29)	RS1/16SS473J
	X 401	(A,14,27) T	CXO 16.368 MH	z CWX2381	R	532	(A,43,10) (EW5)	RS1/16SS104J
	X 501	,	Radiator 32.768 k		R	533	(A,40,18) (UC)	RS1/16SS103J
	X 502	,	Radiator 20.00 MI				(A,40,18) (EW5)	RS1/16SS332J
	X 532	(A,58,15) F	Radiator 4.332 MI	Hz(EW5) CSS1550		534	(A,41,19)	RS1/16SS103J
	F 401	(A,23,23) F	-:Itox	OTE1540	н	535	(A,38,13)	RS1/16SS103J
Ε	F 401	(A,23,23) F	-iiter	CTF1548	B	536	(A,39,18)	RS1/16SS0R0J
	RESISTOR	26					(A,38,15) (EW5)	RS1/16S0R0J
	ILLSISTOI	<u></u>				538	(A,38,17) (EW5)	RS1/16SS0R0J
	R 401	(B,11,26)		RS1/16SS472J			()==,	
	R 402	(B,12,30)		RS1/16SS472J	CA	PACITO	RS	
	R 403	(B,14,32)		RS1/16SS122J				
	R 404	(B,14,30)		RS1/16SS622J	С	401	(A,25,13)	CCSRCH100D50
	R 405	(A,23,26)		RS1/16SS100J	С	402	(A,24,20)	CCSSCH101J50
						403	(A,27,16)	CKSSYB104K10
	R 406	(B,27,29)		RS1/16S271J	С	404	(A,20,24)	CCSSCH101J50
	R 407	(B,25,18)		RS1/16S2R2J	С	405	(B,14,27)	CCSRUJ220J50
	R 441	(A,30,27)		RN1/16SC10R0D	_		(5.44.00)	0000:::::::::::::::::::::::::::::::::::
F	R 442	(B,33,24)		RN1/16SE1501D		406	(B,14,29)	CCSRUJ220J50
	R 443	(B,31,24)		RN1/16SE2402D		407	(B,13,32)	CKSSYB333K16
	D 444	(D 21 06)		DN1/169E2202D		408	(B,12,32)	CKSSYB182K50
	R 444	(B,31,26)		RN1/16SE3302D	C	409	(A,21,29)	CSZS100M6R3
				\\\IC-D3/Y				

AVIC-D3/XU/UC

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Circ	uit Symbol and No.	Part No.		Circ	uit Symbo	ol and No.	Part No.		
C 410	(B,28,32)	CKSSYB103K16		C 540	(A,53,12)		CCSRCH100D50		
C 411	(A,21,27)	CKSSYB102K50		C 541	(A,47,10)	(EW5)	CCSRCH561J50		
C 412	(A,21,28)	CKSSYB102K50		C 542	(A,45,10)	(EW5)	CKSSYB104K10		Α
C 413	(A,20,31)	CKSSYB104K10		C 543	(A,40,12)	EW5)	CSZS100M6R3		
C 414	(A,24,32)	CKSSYB104K10		C 544	(A,50,10)		CCSRCH331J50		
C 415	(A,25,30)	CKSSYB104K10		C 545	(A,53,15)		CKSSYB104K10		
C 416	(A,24,28)	CKSSYB104K10			(),	- /			
C 417	(B,25,22)	CKSSYB104K10		C					
C 418	(A,21,32)	CKSSYB102K50			nher: (CWN2190(U	IC)		
C 419	(B,39,32)	CKSSYB104K10				•	,		
C 420	(A,14,32)	CKSSYB104K10		Unit Nur	mber: (CWN2090(E	:W5)		
0 120	(, 1, 1, 02)	CROCTE TO IRTO		Unit Nar	ne : /	W Unit			
C 421	(B,26,27)	CKSSYB102K50							
C 422	(B,25,26)	CKSSYB103K16		MISCELL	ANEOUS				
C 423	(B,26,24)	CKSSYB104K10		MISCELLA	ANLOUS				В
C 424	,	CCSRCH102J50				_			
	(B,27,22)			IC 1001	(A,46,43)		NJM4558V		
C 425	(B,29,23)	CCSRCH271J50		IC 1021	(A,72,43)	IC	BA4558RFVM		
	(=)			IC 1031	(A,56,43)	IC	BA4558RFVM		
C 426	(B,28,26)	CCSRCH102J50		IC 1041	(A,64,43)	IC	BA4558RFVM		
C 427	(B,25,25)	CKSSYB104K10		IC 1051	(B,66,43)	C	TC4052BFT		
C 428	(B,15,24)	CKSSYB103K16			(,, -,				
C 429	(B,12,24)	CCSRCH301J50		IC 1061	(B,81,65)	C	PML009A		-
C 430	(B,13,22)	CCSSCH120J50		IC 1111	(B,41,43)		BA4558RFVM		
	, ,			IC 1111	(B,81,79)		NJM2060V		
C 431	(B,14,20)	CCSRCH301J50							
C 432	(B,16,22)	CKSSYB103K16		IC 1201	(A,84,139)		PAL007C		
C 433		CCSRCH101J50		IC 1301	(A,15,30)	C	NJM2137V		
	(B,19,9)								С
C 434	(B,19,14)	CKSSYB102K50		IC 1316	(B,16,25)		NJM2136V		Ü
C 435	(B,20,14)	CKSSYB103K16		IC 1331	(B,24,56)	C	BA7649AF		
	(=)			IC 1341	(B,8,44) IC		NJM2505F		
C 436	(B,31,22)	CKSSYB104K10		IC 1351	(B,18,46)	C	NJM2235M		
C 441	(B,31,28)	CKSRYB104K16		IC 1361	(A,6,47) IC		TK15405BMI		
C 442	(A,30,29)	CCSRCH101J50			(,- , ,				
C 443	(A,30,32)	CKSRYB104K16		IC 1381	(A,32,43)	C	NJM2505F		
C 444	(B,33,22)	CKSSYB103K16		IC 1601	(B,36,102)		TPD1018F		_
	,			IC 1821	(A,9,99) IC		BA00CC0WCP-V5		
C 445	(A,29,30)	CKSSYB104K10		IC 1841			BA00CC0WCF-V5		
C 461	(A,28,5) 22 µF/6.3 V	CCH1408			(A,9,88) IC				
C 462	(A,31,9)	CKSRYB104K16		IC 1876	(A,38,56)	iC .	NJM2125F		
C 463	(A,27,9)	CKSRYB104K16							
				IC 1891		Regulator(EW5)	BA00CC0WFP		D
C 464	(B,31,5)	CKSSYB103K16		Q 1001	(A,37,50)	Transistor	IMD3A		_
	(=)			Q 1002	(A,40,43)	Transistor	FMG12		
C 465	(B,31,4)	CKSSYB103K16		Q 1051	(B,59,42)	Transistor	DTC114EUA		
C 466	(B,32,4)	CKSSYB103K16		Q 1052	(B,57,42)	Transistor	DTC114EUA		
C 467	(B,33,4)	CKSSYB103K16			, , ,				
C 468	(A,30,11)	CKSSYB104K10		Q 1091	(A,91,91)	Transistor	FMG12		
C 469	(B,27,4)	CSZS100M10		Q 1092	(A,81,91)		FMG12		
				Q 1093	(A,71,91)		FMG12		
C 470	(B,26,15)	CKSSYB104K10		Q 1112	(B,49,60)		IMD3A		
C 471	(B,37,6)	CCSSCH101J50			,				
C 501	(B,39,19)	CKSSYB104K10		Q 1114	(B,45,60)	ii ai ioiol0l	DTC323TK		
C 502	(B,37,22)	CCSRCH150J50		0.4004	(4.04.440)		LIMBON		
C 503	(B,38,22)	CCSRCH150J50		Q 1201	(A,84,112)		UMD2N		
0 303	(5,00,22)	30011011130030		Q 1202	(A,87,112)		UMD2N		Ε
0.504	(D. 40. 47)	OKCCVD404K40		Q 1203	(A,78,103)		2SC4081		
C 504	(B,40,17)	CKSSYB104K10		Q 1204	(B,92,100)	Transistor	UMD2N		
C 506	(B,60,19)	CKSSYB104K10		Q 1205	(A,81,106)	Transistor	DTC124EUA		
C 507	(B,60,21)	CKSSYB104K10							
C 508	(B,60,26)	CKSSYB104K10		Q 1206	(A,84,106)	Transistor	DTC114EUA		
C 509	(B,60,30)	CKSSYB104K10		Q 1331	(B,24,62)		DTC114EUA		
				Q 1401		Transistor(EW5)			
C 511	(B,41,34)	CKSSYB104K10		Q 1401 Q 1402		Transistor(EW5)			
C 512	(B,38,31)	CKSSYB104K10			,	, ,			
C 514	(A,31,17)	CSZS100M6R3		Q 1403	(A, 135,/5)	Transistor(EW5)	2303130		
C 514	(B,39,24)	CKSSYB104K10		0.44=:	/A = :		DT044:=::		
	• • • • •			Q 1451	, , ,	Transistor(EW5)			
C 516	(B,59,11)	CKSSYB104K10		Q 1452	,	Transistor(EW5)			
0.545	(4.54.04)	01/00//040 *****		Q 1601	(A,53,115)		2SC4116		F
C 517	(A,51,21)	CKSSYB104K10		Q 1602	(B,57,111)	Transistor	2SC4116		
C 518	(A,39,32)	CKSSYB104K10		Q 1603	(B,57,100)	Transistor	DTC114EUA		
C 535	(A,55,15) (EW5)	CSZS100M6R3			,				
C 539	(A,55,19) (EW5)	CCSRCH100D50							
			AVIC-D3	/XII/IIC	1				
	5	6	AVIC-DS	,,,,,,,,,	7	_	8	149	

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	Circ	uit Symbol and No.	Part No.	Circ	uit Symbol and No.	Part No.
		•			•	
	Q 1711	(B,45,12) Transistor	IMD2A	D 1801	(A,123,111) Diode	RB060L-40
	Q 1801	(A,123,117) Transistor	2SA1797	D 1802	(B,132,116) Diode	UDZS27(B)
		, , ,			, , ,	` '
	Q 1802	(A,117,117) Transistor	2SA1162	D 1821	(B,28,77) Diode	DAN202U
Α	Q 1803	(B,117,117) Transistor	2SC4081	D 1824	(A,30,95) Diode	RB060L-40
	Q 1804	(B,113,104) Transistor	2SA1797	D 1831	(B,22,67) Diode	UDZS5R6(B)
	Q .00.	(2,110,101)	20	2 .00.	(2,22,07) 2.000	02200.10(2)
	0.4005	(D.444.440). Translater	DTO44 AFUA	D 4044	(A 00 00) Distals	DD0001 40
	Q 1805	(B,114,119) Transistor	DTC114EUA	D 1844	(A,30,82) Diode	RB060L-40
	Q 1831	(B,20,76) Transistor	2SD1760F5	D 1876	(A,39,59) Diode	EDZ4R3(B)
	Q 1832	(B,25,68) Transistor	DTA114EUA	D 1877	(A,42,56) Diode	1SS355
_	Q 1833	(B,27,68) Transistor	DTC114EUA	D 1878	(B,110,116) Diode	UDZS22(B)
		, , ,				` '
	Q 1851	(A,109,24) Transistor	2SA1797	ZNR1401	(B,163,116) Surge Protecto	or RCCA-201Q31UA-PI
	Q 1852	(A,118,32) Transistor	2SC4081	L 1061	(A,85,59) Inductor	LCYA2R2J2520
	Q 1861	(A,102,34) Transistor	2SA1385-ZS1	L 1301	(A,12,28) Inductor	CTF1410
	Q 1862	,	2SC4081		,	CTF1410
		(A,102,49) Transistor		L 1316	(B,13,28) Inductor	
_	D 1001	(A,36,43) Diode	DAP202K	L 1331	(B,25,49) Inductor	CTF1410
В	D 1111	(B,49,64) Diode	DAN202K	L 1351	(B,11,46) Inductor	CTF1410
	D 1161	(B,91,96) Diode	DAP202K	L 1361	(A,10,59) Inductor	LCTAW100J3225
	D 1201	(A,82,125) Diode	MA111	L 1401	(B,149,102) Inductor(EW5)	
	D 1202	(A,82,110) Diode	UDZS8R2(B)	L 1402	(B,147,97) Inductor(EW5)	LCYCR10K2125
	D 1205	(A,83,103) Diode	DAN202U	L 1404	(A,145,78) Inductor(EW5)	LCTAW101J2520
_	D 1206	(A,81,103) Diode	DAN202U	L 1405	(B,144,89) Inductor(EW5)	LCTCR22K2125
	D 1200	(74,01,100) Blode	B, 1112020	2 1100	(2,111,00) maddio(2110)	2010112112120
	D 4454	(A 06 E7) D:(E)A(E)	UZU2D2/D4\	1 4400	(D 140 00) Industry(EME)	LOTOP10K0105
	D 1451	(A,96,57) Diode(EW5)	HZU3R3(B1)	L 1406	(B,149,92) Inductor(EW5)	LCTCR10K2125
	D 1601	(A,56,118) Diode	UDZS5R1(B)	L 1407	(A,139,74) Inductor(EW5)	LCTCR15K2125
	D 1602	(B,59,115) Diode	HZU8R2(B1)	L 1408	(B,145,78) Inductor(EW5)	LCTAW101J2520
	D 1603	(A,59,105) Diode	UDZS18(B)	L 1410	(A,145,72) Chip Coil(EW5)	
С	D 1604	(A,59,103) Diode	UDZS18(B)	L 1431	(B,160,95) Chip Coil	LCTAW4R7J2520
C						
	D 1605	(B,58,104) Diode	1SR154-400	L 1432	(A,143,43) Inductor	LCTAW2R2J3225
	D 1606	(A,59,107) Diode	1SS355	L 1433	(A,146,36) Inductor	LCTAW2R2J2520
	D 1607	(B,36,109) Diode	1SR154-400	L 1434	(A,143,35) Chip Ferrite Bea	ad CTF1399
	D 1609	(B,36,112) Diode	1SR154-400	L 1435	(A,145,19) Inductor	LCTAW2R2J3225
	D 1610	(A,60,109) Diode	PTZ18A	L 1451	(A,106,64) Chip Coil(EW5)	LCTAW1R0J2520
_	D 1621	(A,128,126) Diode	EDZ6R8(B)	L 1452	(A,106,58) Inductor(EW5)	LCTAW2R2J2520
	D 1622	(A,128,129) Diode	EDZ6R8(B)	L 1453	(A,91,57) Chip Ferrite Bead	
		, , ,	` ,		(A,95,67) Chip Ferrite Bead	
	D 1623	(B,131,116) Diode	EDZ6R8(B)	L 1454		•
	D 1624	(B,135,116) Diode	EDZ6R8(B)	L 1601	(A,56,125) Inductor	CTF1410
	D 1625	(B,138,116) Diode	EDZ6R8(B)	L 1602	(A,65,109) Inductor	CTF1410
D	D 1626	(B,140,116) Diode	MALS068X	L 1603	(A,63,107) Inductor	CTF1410
	D 1627	(B,145,116) Diode	MALS068X	L 1651	(A,44,106) Choke Coil 600	
		· / /			, , ,	•
	D 1628	(A,147,126) Diode	MALS068X	L 1661	(A,102,24) Inductor	CTH1256
	D 1629	(B,143,116) Diode	MALS068X	L 1662	(A,94,14) Inductor	CTF1306
	D 1630	(B,148,116) Diode	MALS068X	L 1701	(A,16,116) Inductor	LCTC2R2K1608
		•			•	
	D 1651	(B,44,83) Diode	KS926S2	L 1702	(A,17,119) Inductor	CTF1556
		(A,38,119) Diode				CTF1379
	D 1652	· , , ,	5KP22A	L 1721	(A,27,25) Inductor	
	D 1701	(A,9,129) Diode	MALS068X	L 1722	(A,119,126) Inductor	CTF1334
	D 1702	(B,13,143) Diode	EDZ6R8(B)	L 1723	(A,119,133) Inductor	CTF1334
	D 1703	(A,13,129) Diode	MALS068X	T 1401	(A,140,93) Coil(EW5)	CTC1194
	2	(/1,10,120) 21000			(* 1, 1 10,00)	0.0
	D 1704	(A 06 117) Diada	10D154 400	T 1400	(A 140 04) Coil/EWE)	CTC1102
Е	D 1704	(A,26,117) Diode	1SR154-400	T 1402	(A,142,84) Coil(EW5)	CTC1193
	D 1705	(B,18,143) Diode	MALS068X	T 1403	(A,132,84) Coil(EW5)	CTC1192
	D 1706	(B,20,143) Diode	MALS068X	∴ FU1701	(A,24,123) Fuse 4 A	CEK1260
	D 1707	(A,18,129) Diode	MALS068X	 ∱FU1702	(A,26,129) Fuse 4 A	CEK1260
	D 1708	(A,22,129) Diode	MALS068X	 FU1855	(A,108,31) Fuse 400 mA	CEK1250
	D 1700	(A,22,129) Diode	MALSOOOX	<u>∠1.</u> \ FU 1055	(A, 100,51) Tuse 400 IIIA	OLK1250
	D 4700	(A 04 445) D: 1	100055	A =	(4.05.40) 5	051/4054
	D 1709	(A,21,115) Diode	1SS355	∴ FU1864	(A,95,48) Fuse 1 A	CEK1254
	D 1710	(B,16,129) Diode	MALS068X	Y 1452	(A,115,67) Tuner Unit(EW5	i) CWE2023
	D 1711	(B,16,143) Diode	MALS068X	Y 1431	(A,157,80) FM/AM Tuner U	
	D 1712	(A,14,117) Diode	PTZ27(B)		(A,157,80) FM/AM Tuner U	
		, , ,	• •	FF4704	, , ,	` '
	D 1713	(A,19,115) Diode	1SS355	EF1701	(A,11,130) EMI Filter	CCG1067
				EF1702	(A,17,130) EMI Filter	CCG1067
	D 1714	(A,16,113) Diode	DAN202U			
_	D 1715	(A,23,117) Diode	PTZ20(B)	EF1703	(A,20,130) EMI Filter	CCG1067
F		, , ,	` ,		(B,18,129) EMI Filter	CCG1067
	D 1716	(B,13,144) Diode	EDZ20(B)	EF1704		
	D 1721	(A,121,131) Diode	UDZS5R6(B)	EF1705	(B,22,129) EMI Filter	CCG1067
	D 1722	(A,121,128) Diode	UDZS5R6(B)	EF1706	(B,27,129) EMI Filter	CCG1067
				EF1707	(A,8,130) EMI Filter	CCG1067
					· /-// =	
1	50		AVIC-D3/	XU/UC		

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	Circu	uit Symbo	ol and No.	Part No.		Ci	rcuit Symbol	and No.	Part No.		
						R 1092	(A,88,89)		RS1/16S821J		
FF1	708	(B,20,129)	FMI Filter	CCG1067		R 1093	(A,83,89)		RS1/16S821J		
	709	(B,24,129)		CCG1067		R 1094	(A,78,89)		RS1/16S821J		
	710	(B,29,129)		CCG1067			(, ,,, 0,00)				Α
	711	(A,14,130)		CCG1067		R 1095	(A,73,89)		RS1/16S821J		
<u> </u>		Fuse 10 A	2.0	CEK1208		R 1096	(A,68,89)		RS1/16S821J		
•		1 400 10 71		OLIVILOO		R 1097	(A,93,91)		RS1/16S223J		
DE	SISTOF	96				R 1098	(A,83,91)		RS1/16S223J		
<u>nt,</u>	313101	10				R 1099	(A,73,91)		RS1/16S223J		
R 1	001	(A,44,36)		RS1/16S473J		11 1000	(71,70,01)		1101/1002200		_
	002	(A,44,30) (A,47,37)		RS1/16S473J		R 1100	(A,88,91)		RS1/16S223J		
	002	(A,47,37) (A,47,38)		RS1/16S473J		R 1101	(A,78,91)		RS1/16S223J		
	003	(A,47,36) (A,44,37)		RS1/16S473J		R 1102	(A,68,91)		RS1/16S223J		
	005	(A,44,51)		RS1/16S473J		R 1103	(A,95,91)		RS1/16S471J		
	000	(7,77,51)		1101/1004/00		R 1104	(A,85,91)		RS1/16S471J		
R 1	006	(A,47,49)		RS1/16S473J			(, , ,				
	007	(A,47,48)		RS1/16S473J		R 1105	(A,75,91)		RS1/16S471J		В
	008	(A,44,49)		RS1/16S473J		R 1106	(A,87,91)		RS1/16S471J		
	009	(A,41,39)		RS1/16S182J		R 1107	(A,77,91)		RS1/16S471J		
	010	(A,41,47)		RS1/16S182J		R 1108	(A,67,91)		RS1/16S471J		
	010	(73,71,77)		1101/1001020		R 1111	(B,39,37)		RS1/16S103J		
R 1	011	(A,41,46)		RS1/16S473J			, , ,				
	012	(A,41,40)		RS1/16S473J		R 1112	(B,39,38)		RS1/16S103J		_
	023	(A,70,37)		RS1/16S103J		R 1113	(B,39,40)		RS1/16S103J		
	024	(A,73,38)		RS1/16S103J		R 1114	(B,42,38)		RS1/16S103J		
	025	(A,73,39)		RS1/16S103J		R 1115	(B,41,52)		RS1/16S102J		
	023	(14,70,00)		1101/1001000		R 1116	(B,41,49)		RS1/16S104J		
R 1	026	(A,70,38)		RS1/16S103J			(, , ,				
	027	(A,70,50)		RS1/16S103J		R 1117	(B,38,48)		RS1/16S104J		
	028	(A,73,48)		RS1/16S103J		R 1118	(B,38,47)		RS1/16S683J		С
	029	(A,73,47)		RS1/16S103J		R 1119	(B,41,47)		RS1/16S473J		
	030	(A,70,48)		RS1/16S103J		R 1121	(B,43,57)		RS1/16S821J		
	000	(14,70,40)		1101/1001000		R 1123	(B,43,60)		RS1/16S104J		
R 1	033	(A,54,36)		RS1/16S103J			, , ,				
	034	(A,57,38)		RS1/16S103J		R 1124	(B,59,57)		RS1/16S0R0J		
	035	(A,57,39)		RS1/16S103J		R 1131	(B,90,80)		RS1/16S472J		
	036	(A,55,38)		RS1/16S103J		R 1132	(B,73,80)		RS1/16S562J		-
	037	(A,55,50)		RS1/16S103J		R 1133	(B,72,80)		RS1/16S472J		
	001	(, 1,00,00)		1101/1001000		R 1134	(B,88,80)		RS1/16S562J		
R 1	038	(A,57,48)		RS1/16S103J			, , , , , ,				
	039	(A,57,47)		RS1/16S103J		R 1135	(B,75,80)		RS1/16S472J		
	040	(A,55,48)		RS1/16S103J		R 1136	(B,87,80)		RS1/16S472J		
	043	(A,62,37)		RS1/16S103J		R 1137	(B,88,78)		RS1/16S472J		D
	044	(A,65,38)		RS1/16S103J		R 1138	(B,73,78)		RS1/16S472J		
		(,,,				R 1139	(B,87,78)		RS1/16S472J		
R 1	045	(A,65,39)		RS1/16S103J							
R 1	046	(A,62,38)		RS1/16S103J		R 1140	(B,75,78)		RS1/16S472J		
R 1	047	(A,62,50)		RS1/16S103J		R 1201	(A,82,121)		RS1/16S391J		
	048	(A,65,48)		RS1/16S103J		R 1202	(A,82,119)		RS1/16S391J		
	049	(A,65,47)		RS1/16S103J		R 1203	(A,77,106)		RS1/16S473J		
		, , ,				R 1204	(A,79,106)		RS1/16S223J		
R 1	050	(A,62,48)		RS1/16S103J							
R 1	051	(B,65,37)		RS1/16S104J		R 1205	(A,80,110)		RS1/16S103J		
R 1	052	(B,67,37)		RS1/16S104J		R 1206	(B,90,104)		RS1/10S102J		
R 1	053	(B,68,50)		RS1/16S104J		R 1207	(A,86,107)		RS1/16S103J		Е
R 1	054	(B,66,50)		RS1/16S104J		R 1208	(A,87,105)		RS1/16S221J		_
						R 1209	(A,86,105)		RS1/16S103J		
R 1	055	(B,64,50)		RS1/16S473J		_					
R 1	056	(B,65,50)		RS1/16S473J		R 1210	(B,76,116)		RS1/16S101J		
R 1	061	(B,85,47)		RS1/16S181J		R 1211	(B,72,116)		RS1/16S101J		
R 1	062	(B,78,47)		RS1/16S181J		R 1212	(B,74,116)		RS1/16S101J		_
R 1	063	(B,86,47)		RS1/16S223J		R 1213	(B,79,116)		RS1/16S101J		
						R 1214	(B,89,126)		RS1/16S103J		
	064	(B,76,47)		RS1/16S223J		D 4045	(0.07.400)		D04/4004001		
	065	(B,87,47)		RS1/16S102J		R 1215	(B,87,126)		RS1/16S103J		
	066	(B,75,47)		RS1/16S102J		R 1216	(B,90,126)		RS1/16S103J		
	067	(B,73,56)		RS1/16S0R0J		R 1217	(A,87,107)		RS1/16S101J		
R 1	068	(A,80,46)		RS1/16S331J		R 1302	(A,13,34)		RS1/16S750J		F
_	000	(4.65 :=:		D04//20==::		R 1303	(A,17,34)		RS1/16S103J		
	069	(A,83,46)		RS1/16S331J		R 1304	(A 15 24)		RS1/16S103J		
R 1	091	(A,93,89)		RS1/16S821J		R 1304	(A,15,34) (A,22,32)		RS1/16S1033 RS1/16S4701D		
							(۸,۷۷,۵۷)		1101/1004/010		
_		_	_	•	AVIC-D3/2	XU/UC	7		•	151	_
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	Circ	cuit Symbol and No.	Part No.	Circ	cuit Symbol and No.	Part No.
	R 1306	(A,21,32)	RS1/16S4701D	R 1444	(B,82,41)	RS1/16S0R0J
	R 1307	(A,20,32)	RS1/16S4701D	R 1445	(B,149,56)	RS1/16S223J
	R 1308	(A,20,30)	RS1/16S4701D	R 1451	(A,107,71) (EW5)	RS1/16S473J
Α	D 1200	(4 20 27)	DC1/16C101 I	R 1455	(B,136,54) (EW5)	RS1/16S221J
	R 1309 R 1310	(A,20,27) (A,9,30)	RS1/16S101J RS1/16S102J	R 1456	(A,93,55) (EW5)	RS1/10S391J
	R 1311	(A,10,30)	RS1/16S563J	R 1601	(A,56,116)	RS1/16S473J
	R 1312	(A,10,33)	RS1/16S473J	R 1602	(A,53,118)	RS1/16S104J
	R 1316	(B,14,22)	RS1/16S750J	R 1603	(B,57,113)	RS1/16S473J
				R 1604	(B,57,114)	RS1/16S104J
_	R 1317	(B,18,22)	RS1/16S103J	D 160F	/D co 100\	DC1/16C100 I
	R 1318 R 1319	(B,16,22) (B,21,26)	RS1/16S103J RS1/16S4701D	R 1605 R 1606	(B,60,102) (A,56,121)	RS1/16S103J RS1/16S102J
	R 1320	(B,21,24)	RS1/16S4701D	R 1607	(A,53,121)	RS1/16S472J
	R 1321	(B,21,23)	RS1/16S4701D	R 1608	(A,55,123)	RS1/4S102J
		, , ,		R 1609	(B,65,117)	RS1/4S102J
В	R 1322	(A,15,25)	RS1/16S4701D			
	R 1323	(A,10,25)	RS1/16S101J	R 1610	(B,65,123)	RS1/4S472J
	R 1333	(B,27,63)	RS1/16S104J	R 1611	(B,65,113)	RS1/4S102J
	R 1338 R 1341	(B,22,50) (B,7,57)	RS1/16S105J RS1/16S750J	R 1612 R 1613	(B,65,120) (A,62,116)	RS1/4S472J RS1/4S472J
	11 1041	(0,7,37)	1101/100/300	R 1621	(A,139,119)	RS1/16S0R0J
	R 1342	(B,7,55)	RS1/16S473J		(* 1,100,110)	1101710001100
	R 1343	(B,7,53)	RS1/16S473J	R 1622	(A,138,116)	RS1/16S0R0J
	R 1344	(B,7,51)	RS1/16S101J	R 1623	(A,140,116)	RS1/16S0R0J
	R 1345	(B,9,51)	RS1/16S101J	R 1624	(A,142,119)	RS1/16S0R0J
	R 1351	(B,20,42)	RS1/16S105J	R 1625	(A,144,115)	RS1/16S0R0J
	R 1352	(B,20,41)	RS1/16S105J	R 1626	(A,148,115)	RS1/16S0R0J
С	R 1353	(B,20,41) (B,20,40)	RS1/16S105J	R 1627	(A,140,119)	RS1/16S0R0J
	R 1354	(B,16,41)	RS1/16S105J	R 1628	(A,141,116)	RS1/16S0R0J
	R 1361	(A,8,50)	RS1/16S105J	R 1629	(A,144,121)	RS1/16S0R0J
	R 1362	(A,17,50)	RS1/16S750J	R 1655	(A,107,8) (EW5)	RS1/10S0R0J
				R 1656	(A,110,8) (UC)	RS1/10S0R0J
_	R 1372 R 1381	(A,21,38)	RS1/16S0R0J RS1/16S750J	R 1660	(A,29,72)	RS1/16S473J
	R 1382	(A,30,33) (A,30,34)	RS1/16S473J	R 1661	(A,76,15)	RS1/16S0R0J
	R 1383	(A,30,37)	RS1/16S473J	R 1662	(A,79,15)	RS1/16S0R0J
	R 1385	(A,32,36)	RS1/16S101J	R 1663	(A,82,15)	RS1/16S0R0J
				R 1664	(A,77,15)	RS1/16S0R0J
	R 1386	(A,34,36)	RS1/16S101J	R 1665	(A,88,15)	RS1/16S0R0J
D	R 1401	(B,151,103) (EW5)	RS1/16S105J	D 4000	(4.00.45)	D04/4004041
_	R 1402 R 1403	(B,155,94) (UC) (A,135,94) (EW5)	RS1/4S0R0J RS1/16S821J	R 1666	(A,89,15)	RS1/16S101J RS1/16S0R0J
	R 1403	(A,135,94) (EW5) (A,135,97) (EW5)	RS1/16S330J	R 1667 R 1668	(A,74,12) (A,72,12)	RS1/16S0R0J
	R 1405	(A,142,78) (EW5)	RS1/16S332J	R 1669	(A,90,15)	RS1/16S0R0J
		(, , -, (-,		R 1670	(B,105,7)	RS1/16S0R0J
	R 1406	(A,132,80) (EW5)	RS1/16S101J			
	R 1407	(B,139,81) (EW5)	RS1/16S151J	R 1671	(B,94,14)	RS1/16S0R0J
	R 1408	(B,139,84) (EW5)	RS1/16S680J RS1/16S152J	R 1672	(A,80,15)	RS1/16S0R0J
	R 1409 R 1410	(B,142,85) (EW5) (B,144,83) (EW5)	RS1/16S681J	R 1673 R 1674	(A,71,9) (A,71,7)	RS1/8S0R0J RS1/8S0R0J
	11 1410	(B, 144,00) (EVV)	1101/1000010	R 1675	(A,66,7)	RS1/8S0R0J
	R 1411	(A,131,73) (EW5)	RS1/16S151J		(* 3,003,1)	
Е	R 1412	(A,133,76) (EW5)	RS1/16S680J	R 1703	(A,16,119)	RS1/16S153J
_	R 1413	(B,146,89) (EW5)	RS1/16S181J	R 1704	(A,19,119)	RS1/10S103J
	R 1414	(A,139,76) (EW5)	RS1/16S152J	R 1721	(A,16,19)	RS1/16S0R0J
	R 1415	(A,141,74) (EW5)	RS1/16S681J	R 1722	(A,16,20)	RS1/16S0R0J
	R 1416	(A,140,71) (EW5)	RS1/16S151J	R 1723	(A,16,21)	RS1/16S0R0J
	R 1431	(B,149,63)	RS1/16S681J	R 1724	(B,26,13)	RS1/16S0R0J
	R 1432	(B,149,62)	RS1/16S681J	R 1725	(A,16,23)	RS1/16S0R0J
	R 1433	(B,149,61)	RS1/16S681J	R 1726	(A,20,17)	RS1/16S0R0J
	R 1434	(B,149,59)	RS1/16S681J	R 1727	(A,24,22)	RS1/16S0R0J
	D 446=	(D 440 53)	D04/400004 !	R 1729	(A,25,25)	RS1/16S0R0J
	R 1435	(B,149,58)	RS1/16S681J	D 1791	(A 26 22)	DQ1/16Q0D0 I
	R 1436 R 1438	(B,149,57) (EW5) (B,146,37)	RS1/16S681J RS1/16S681J	R 1731 R 1734	(A,26,22) (A,27,22)	RS1/16S0R0J RS1/16S0R0J
F	R 1438 R 1439	(B,140,37) (B,147,20)	RS1/16S0R0J	R 1735	(B,28,17)	RS1/16S0R0J
	R 1440	(B,147,17)	RS1/16S0R0J	R 1736	(A,28,25)	RS1/16S0R0J
	• •	· · · /		R 1737	(B,29,20)	RS1/16S0R0J
	R 1443	(B,80,41)	RS1/16S0R0J			
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Cir	cuit Symbol and No.	Part No.		Circ	cuit Symbol and No.	Part No.	
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R 1738	(A,29,22)	RS1/16S0R0J		R 1823	(B,18,96)	RN1/16SE2201D	
R 1739	(B,30,17)	RS1/16S0R0J		R 1825	(B,18,94)	RS1/16S104J	
R 1740	(A,30,25)	RS1/16S0R0J		R 1831	(B,21,84)	RS1/8S0R0J	
R 1741	(B,30,20)	RS1/16S0R0J		R 1832	(B,25,71)	RS1/16S471J	
R 1742	(A,30,22)	RS1/16S0R0J		R 1841	(B,18,90)	RS1/16S8200D	
R 1743	(B,31,17)	RS1/16S0R0J		R 1842	(B,18,88)	RS1/16S1201D	
R 1744	(A,31,25)	RS1/16S0R0J		R 1843	(B,18,85)	RS1/16S1201D	
		RS1/16S0R0J			,		
R 1745	(B,32,20)			R 1851	(A,99,13)	RS1/16S153J	
R 1746	(A,32,22)	RS1/16S0R0J		R 1852	(A,112,24)	RS1/4SA331J	
R 1747	(B,32,17)	RS1/16S0R0J		R 1853	(A,112,29)	RS1/4SA331J	Į.
R 1748	(A,33,25)	RS1/16S0R0J		R 1854	(A,108,28)	RS1/16S153J	
R 1749	(B,33,20)	RS1/16S0R0J		R 1855	(A,118,30)	RS1/16S103J	
	, , ,						
R 1750	(A,33,22)	RS1/16S0R0J		R 1856	(A,115,29)	RS1/16S153J	
R 1751	(B,34,17)	RS1/16S0R0J		R 1861	(A,102,43)	RS1/4SA151J	
R 1752	(A,34,25)	RS1/16S0R0J		R 1862	(A,102,45)	RS1/4SA151J	
	, , ,				, ,		
R 1753	(B,34,20)	RS1/16S0R0J		R 1863	(A,102,41)	RS1/16S153J	
R 1754	(A,35,22)	RS1/16S0R0J		R 1864	(A,107,49)	RS1/16S123J	
R 1755	(B,35,17)	RS1/16S0R0J		R 1865	(A,102,47)	RS1/4SA151J	
R 1756	(A,36,25)	RS1/16S0R0J		R 1866	(A,104,49)	RS1/16S103J	
R 1757	(B,36,20)	RS1/16S0R0J		R 1876	(A,44,56)	RS1/16S102J	1
	(=,==,==)				(,,)		
R 1758	(A 26 22)	RS1/16S0R0J		R 1891	(P.06.57) (EWE)	RS1/16S5601D	
	(A,36,22)				(B,96,57) (EW5)		
R 1759	(B,37,17)	RS1/16S0R0J		R 1892	(B,96,56) (EW5)	RS1/16S1000D	
R 1760	(A,37,25)	RS1/16S0R0J		R 1893	(B,96,54) (EW5)	RS1/16S1001D	
R 1761	(B,37,20)	RS1/16S0R0J		R 1894	(B,106,70) (EW5)	RS1/8S0R0J	
R 1762	(A,38,22) (EW5)	RS1/16S0R0J		R 1895	(B,99,60) (EW5)	RS1/16S103J	
11 1702	(A,50,22) (LVV5)	1131/10301103		11 1033	(D,99,00) (LVV3)	1131/1031033	
	(5.55.47)	D0.//.000D0.					•
R 1763	(B,38,17)	RS1/16S0R0J		CAPACIT	<u>ORS</u>		
R 1764	(A,38,25) (EW5)	RS1/16S0R0J					
R 1766	(A,39,22) (EW5)	RS1/16S0R0J		C 1001	(A,48,34) 10 μF	CCG1203	
R 1768	(A,40,25) (EW5)	RS1/16S0R0J			, .		
				C 1002	(A,47,52) 10 μF	CCG1203	
R 1770	(A,40,22) (EW5)	RS1/16S0R0J		C 1003	(A,48,52) 10 μF	CCG1203	
				C 1004	(A,44,38)	CCSRCH330J50	
R 1772	(A,41,25) (EW5)	RS1/16S0R0J		C 1005	(A,43,43)	CKSRYB104K50	
R 1774	(A,42,22) (EW5)	RS1/16S0R0J			(-,,,		
R 1776	(A,43,25)	RS1/16S0R0J		0 1000	(A 44 40)	0000011000150	
				C 1006	(A,44,48)	CCSRCH330J50	
R 1778	(A,43,22)	RS1/16S0R0J		C 1007	(A,38,39) 10 μF	CCG1203	
R 1780	(A,44,25)	RS1/16S0R0J		C 1008	(A,38,47) 10 μF	CCG1203	
				C 1009	(A,47,34) 10 μF	CCG1203	
R 1782	(A,45,22)	RS1/16S0R0J		C 1021	(A,72,35) 10 µF	CCG1203	
R 1784	(A,45,25)	RS1/16S0R0J		0 1021	(71,72,00) TO pr	004.200	
R 1786	(A,46,22) (EW5)	RS1/16S0R0J			(4 = 4 = 5)	0001000	
				C 1022	(A,74,35) 10 μF	CCG1203	
R 1788	(A,47,25)	RS1/16S0R0J		C 1023	(A,72,51) 10 μF	CCG1203	
R 1790	(A,47,22) (EW5)	RS1/16S0R0J		C 1024	(A,74,51) 10 μF	CCG1203	
				C 1025	(A,70,39)	CCSRCH100D50	
R 1792	(A,48,25) (EW5)	RS1/16S0R0J		C 1026	(A,69,43)	CKSRYB104K50	
R 1794	(A,49,22) (EW5)	RS1/16S0R0J		5 1020	(,,,,,,,,,,	3110111 B 1041130	!!
	(, , , , , , , , , , , , , , , , , , ,						
R 1796	(A,50,25) (EW5)	RS1/16S0R0J		C 1027	(A,70,47)	CCSRCH100D50	
R 1801	(A,120,118)	RS1/16S103J		C 1031	(A,56,36) 10 μF	CCG1203	
R 1802	(A,114,117)	RS1/4SA271J		C 1032	(A,57,36) 10 µF	CCG1203	
				C 1033	(A,55,52) 10 µF	CCG1203	
R 1803	(A,112,117)	RS1/4SA271J		C 1033	(A,57,52) 10 μF	CCG1203	
R 1804	(A,120,116)	RS1/16S102J		C 1034	(Α,57,52) ΤΟ μΕ	CCG1203	
	, , ,						
R 1805	(A,111,111)	RS2PMFR47J		C 1035	(A,55,39)	CCSRCH100D50	
R 1806	(A,117,114)	RS1/16S103J		C 1036	(A,53,43)	CKSRYB104K50	
R 1807	(B,116,104)	RS1/16S103J		C 1037	(A,55,47)	CCSRCH100D50	
	•			C 1041	(A,64,34) 10 μF	CCG1203	
R 1808	(B,110,110)	RS1/4SA271J					
	· · · · · ·			C 1042	(A,63,52) 10 μF	CCG1203	1
R 1809	(B,115,116)	RS1/16S103J					
R 1810	(B,112,110)	RS1/4SA271J		C 1043	(A,65,52) 10 μF	CCG1203	
R 1811	(B,114,116)	RS1/16S103J		C 1044	(A,62,39)	CCSRCH100D50	
R 1812	(B,112,120)	RS1/16S222J		C 1045	(A,61,43)	CKSRYB104K50	
	• • • • • • • • • • • • • • • • • • • •			C 1045			
R 1813	(B,107,104)	RS1/8S0R0J			(A,62,47)	CCSRCH100D50	
	· · · · · ·			C 1047	(A,62,34) 10 μF	CCG1203	
R 1814	(B,110,120)	RS1/16S124J					
R 1817	(A,132,115)	RS1/8S0R0J		C 1051	(B,69,43)	CKSRYB104K50	
R 1821	(B,18,101)	RN1/16SE1002D		C 1061	(B,86,51) 10 µF	CCG1203	
R 1822	(B,18,99)	RN1/16SE2701D		C 1062	(B,85,54) 10 μF	CCG1203	
	\-,·-,·-/			0 1002	(D,00,04) TO µF	0001200	
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	Circ	cuit Symbol and No.	Part No.	<u>Ci</u>	rcuit Symbol and No.	Part No.
	C 1063	(B,84,51) 10 μF	CCG1203	C 1209	(B,76,119)	CKSQYB105K16
	C 1064	(B,83,54)	CKSQYB105K16	C 1210	(B,72,119)	CKSQYB105K16
Α	C 1065	(B,82,51) 10 μF	CCG1203	C 1211	(B,74,119)	CKSQYB105K16
	C 1066	(B,81,54) 10 μF	CCG1203	C 1212	(B,79,119)	CKSQYB105K16
	C 1067 C 1068	(B,80,51) (B,79,54) 10 μF	CKSQYB105K16 CCG1203	C 1215 C 1216	(B,76,122)	CKSRYB105K10 CKSRYB105K10
	C 1068	(B,79,54) 10 μF (B,78,51) 10 μF	CCG1203	C 1216	(B,72,122) (B,74,122)	CKSRYB105K10
	0 1000	(Β,70,31) 10 μι	0001200	0 1217	(0,17,122)	OKOTTETOSKIO
	C 1070	(B,77,54) 10 μF	CCG1203	C 1218	(B,79,122)	CKSRYB105K10
_	C 1071	(A,85,64)	CEVW100M16	C 1219	(A,26,113)	CKSRYB104K50
	C 1072 C 1073	(A,82,62) (A,81,62)	CKSRYB104K25 CKSRYB104K25	C 1220 C 1221	(B,91,126) (A,73,130)	CKSRYB105K10 CKSQYB225K10
	C 1074	(A,79,62)	CKSRYB104K25	C 1222	(A,77,130)	CKSYB225K16
	0.4075	(D.04.00)	OKCOVB475K40	0 1000	(A 70 100)	CEVW100M16
В	C 1075 C 1076	(B,91,60) (B,71,60)	CKSQYB475K10 CKSQYB475K10	C 1223 C 1301	(A,73,123) (A,16,34)	CKSRYB473K50
	C 1077	(B,91,62)	CKSQYB475K10	C 1302	(A,20,36) 10 μF	CCG1203
	C 1078	(B,71,62)	CKSQYB475K10	C 1303	(A,20,34) 10 µF	CCG1203
	C 1079	(B,91,64)	CKSQYB475K10	C 1304	(A,21,30)	CCSRCH5R0C50
	C 1080	(B,71,64)	CKSQYB475K10	C 1305	(A,15,28)	CKSRYB104K16
	C 1081	(B,91,66)	CKSQYB475K10	C 1306	(A,9,33)	CKSRYB105K10
_	C 1082	(B,71,66)	CKSQYB475K10	C 1316	(B,17,22)	CKSRYB473K50
	C 1083	(B,90,77)	CKSQYB475K10	C 1317	(B,21,20) 10 μF	CCG1203
	C 1084	(B,72,77)	CKSQYB475K10	C 1318	(B,21,21) 10 μF	CCG1203
	C 1085	(A,85,70)	CEVW100M16	C 1319	(A,15,27)	CCSRCH5R0C50
С	C 1086	(A,77,71)	CKSRYB104K25	C 1320	(B,15,28)	CKSRYB104K16
Ü	C 1087 C 1088	(B,78,73) (A,80,48)	CKSRYB104K25 CKSRYB103K50	C 1331 C 1332	(A,30,64) (A,25,64)	CEVWNP100M10 CEVWNP100M10
	C 1089	(A,83,48)	CKSRYB103K50	C 1333	(A,30,56)	CEVWNP100M10
	C 1091	(A,93,84)	CEVW100M16	C 1334	(A,25,56)	CEVWNP100M10
	C 1092	(A,88,84)	CEVW100M16	C 1338	(B,25,50)	CKSRYB104K25
	C 1093	(A,83,84)	CEVW100M16	C 1339	(B,22,51)	CKSRYB104K25
	C 1094	(A,78,84)	CEVW100M16	C 1341	(B,7,56)	CKSRYB473K50
	C 1095	(A,73,84)	CEVW100M16	C 1342	(B,7,48) 10 μF	CCG1203
	C 1096	(A,68,84)	CEVW100M16	C 1343	(B,9,48) 10 μF	CCG1203
	C 1097	(A,95,89)	CKSRYB222K50	C 1344	(B,7,41)	CKSRYB104K25
D	C 1098 C 1099	(A,85,89) (A,75,89)	CKSRYB222K50 CKSRYB222K50	C 1351 C 1352	(A,25,48) (A,20,48)	CEVWNP100M10 CEVWNP100M10
	C 1100	(A,87,89)	CKSRYB222K50	C 1353	(A,20,46) (B,13,46)	CKSRYB104K25
		· · · · /			(, , ,	
	C 1101	(A,77,89)	CKSRYB222K50	C 1354	(B,16,42)	CKSRYB104K25
	C 1102 C 1111	(A,67,89) (B,37,37)	CKSRYB222K50 CKSRYB105K10	C 1361 C 1362	(A,20,56) (A,11,54)	CEVWNP100M10 CEVW101M16
	C 1112	(B,37,38)	CKSRYB105K10	C 1363	(A,6,50)	CKSRYB104K25
_	C 1113	(B,42,40)	CCSRCH221J50	C 1364	(A,13,47)	CEVW220M16
	C 1114	(B,43,43)	CKSRYB104K25	C 1365	(A,13,40)	CEVW221M10
	C 1115	(B,41,51)	CKSRYB103K50	C 1374	(A,26,34)	CEVQW101M10
	C 1116	(B,36,47)	CKSRYB104K50	C 1382	(A,31,39) 10 μF	CCG1203
Е	C 1117	(B,41,48)	CCSRCH151J50	C 1383	(A,33,39) 10 μF	CCG1203
_	C 1118	(B,36,48)	CCSRCH151J50	C 1384	(A,31,46)	CKSRYB104K25
	C 1119	(B,43,47)	CKSRYB105K10	C 1402	(B,151,100) (EW5)	CCSRCH270J50
	C 1131	(B,88,83)	CKSRYB105K10	C 1403	(B,149,99) (EW5)	CCSRCH220J50
	C 1132 C 1133	(B,76,80) (B,86,80)	CCSRCH221J50 CCSRCH221J50	C 1404 C 1405	(B,147,100) (EW5) (B,145,98) (EW5)	CCSRCH270J50 CCSRCH330J50
	C 1133	(B,82,75)	CKSRYB104K25	C 1405	(B,145,95) (EW5)	CCSRCH470J50
	C 110F	(Λ Q1 77\	CEV/W101M16	C 1407		CKSDVB100V50
	C 1135 C 1136	(A,81,77) (B,86,78)	CEVW101M16 CCSRCH221J50	C 1407 C 1408	(A,135,93) (EW5) (A,135,95) (EW5)	CKSRYB103K50 CKSRYB103K50
	C 1137	(B,76,78)	CCSRCH221J50	C 1409	(A,143,78) (EW5)	CKSRYB103K50
	C 1138	(B,73,83)	CKSRYB105K10	C 1410	(A,137,83) (EW5)	CKSRYB222K50
F	C 1201	(B,93,104)	CKSRYB104K50	C 1411	(B,138,81) (EW5)	CKSRYB222K50
	C 1202	(A,89,117)	CEVW470M16	C 1412	(A,131,76) (EW5)	CKSRYB222K50
	C 1203	(A,92,108)	CEVW330M10	C 1413	(B,142,83) (EW5)	CKSRYB222K50
	C 1205	(A,96,130)	CKSRYB104K50	C 1415	(B,148,89) (EW5)	CCSRCH150J50
	154	1 =	AVIC-D3/XU	/UC	3 -	4

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Circ	uit Symbol and No.	Part No.		Circuit Sym	bol and No.	Part No.	
C 1416	(B,144,82) (EW5)	CKSRYB103K50	C 18	_		CKSRYB103K50	
C 1417	(A,138,76) (EW5)	CKSRYB222K50	C 18		•	CEVW100M16	
	(, , , , , , , , , , , , , , , , , , ,		C 18			CKSRYB104K50	
C 1418	(B,151,89) (EW5)	CCSRCH270J50					Α
C 1419	(A,137,71) (EW5)	CCSRCH220J50	C 18		(EW5)	CEVW101M16	
C 1420	(A,143,73) (EW5)	CKSRYB103K50	C 18	(, ,) (EW5)	CKSRYB103K50	
C 1431	(A,144,61)	CEVW221M10	C 18	94 (B,102,6	6) (EW5)	CKSRYB104K50	
C 1432	(A,144,50)	CEVW221M10					
C 1433	(B,141,65)	CKSRYB103K50	G				_
C 1434	(A,147,43)	CKSRYB103K50		Number:	CWN2188(UC)	
C 1435	(A,148,33)	CKSRYB103K50			•	•	
C 1437	(A,147,31) 10 µF	CCG1203			CWN2091(,	
C 1438	(A,145,25)	CEVW470M16	Unit	Name :	Monitor Un	lit	
C 1441	(A,162,73) (UC)	CCSRCH101J50			_		
0.4454	(A 407.74) (E\A(E)	01/00/01/01/01/01	MISC	ELLANEOU	<u>S</u>		В
C 1451 C 1453	(A,107,74) (EW5)	CKSRYB103K50 CKSRYB103K50					Ь
C 1453	(A,108,58) (EW5) (A,102,65) (EW5)	CEVW220M16	IC 50		1) 1 Chip or Gate	TC7SH32FUS1	
C 1455	(A,102,03) (EVV3) (A,98,65) (EW5)	CKSRYB103K50	IC 50 IC 50			RB5P0090M	
C 1456	(A,102,57) (EW5)	CEVW100M16	IC 50	() -)		TC7SET04FUS1 TC74VHC221AFTS	21
			IC 51		•	LZ9FE30	, i
C 1457	(A,102,77) (EW5)	CKSRYB473K50	1001	(71,04,00	, 10	L201 L00	
C 1458	(A,97,56) (EW5)	CKSRYB473K50	IC 51	01 (B,65,32) IC	NJM2107F	-
C 1459	(B,136,52) (EW5)	CCSRCH221J50	IC 51			BD6171KV	
C 1603	(B,57,102)	CKSQYB105K16	IC 53	00 (A,111,3	4) IC	PE5584A	
C 1604	(A,56,119)	CKSRYB102K50	IC 53	, , ,	,	S-93C46BD0I-J8	
C 1606	(B,57,115)	CKSRYB104K50	IC 53	04 (B,121,4	6) IC	S-80835CNNB-B8U	J
C 1607	(B,37,113) (B,37,106)	CKSRYB104K50	10.50	07 /D 10 00) Damete IO	OD4LIVE4DK	С
C 1608	(B,57,107)	CKSRYB102K50	IC 53 IC 56		Remote IC	GP1UX51RK PD6567A	
C 1609	(B,35,106)	CKSRYB102K50	IC 56			TC7SH08FUS1	
C 1610	(A,53,125)	CKSRYB102K50	IC 56	` ' '		NJM2903V	
			IC 57	, , ,	,	M62343FP	
C 1611	(B,37,115)	CKSRYB102K50		(, - ,-	, -		
C 1612	(A,60,111)	CKSRYB102K50	IC 59			TA78L05F	
C 1652	(A,48,74)	CEAT103M16	IC 59			TC7SH08FUS1	
C 1653 C 1661	(A,47,91) 3 300 μF/16 V (A,93,22)	CCH1018 CEVW221M16	IC 59			OZ961ISN	
C 1001	(A,93,22)	CL V VVZZ TIVITO	Q 51	` ' ') Transistor	2SC2411K	
C 1701	(B,31,129)	CKSRYB102K50	Q 51	80 (B,47,15) Transistor	DTC114EUA	
C 1702	(A,17,116)	CKSRYF103Z50	Q 52	00 (A,29,25) FET	RSQ035P03	
C 1703	(B,22,143)	CKSRYB104K25	Q 52			RSQ035P03	D
C 1711	(B,44,9)	CKSRYB104K25	Q 53) Transistor	2SC4617	
C 1712	(B,47,9)	CKSRYB104K25	Q 53		5) Transistor	2SC4617	
0.4704	(4 440 404)	01/00/01/01/01/01	Q 53	60 (A,110,1	8) Transistor	FMG12	
C 1721 C 1722	(A,119,131) (A,119,128)	CKSRYB102K50 CKSRYB102K50			_, _		
C 1802	(B,134,116)	CKSRYB102K50	Q 53		8) Transistor	DTA123JU	
C 1803	(A,103,116) 10 μF	CCG1223	Q 53		8) Transistor8) Transistor	DTA123JU	-
C 1804	(A,103,105) 10 μF	CCG1223	Q 53 Q 53		7) Transistor	DTC114EUA DTC114EUA	
	, , ,		Q 56	, , ,) Transistor	2SC4617	
C 1821	(A,15,99)	CCSRCH102J50	Q 00	(2,00,70	, mandiotor	2001017	
C 1822	(A,19,99) 100 μF/16 V	CCH1565	Q 57	00 (B,133,5	1) Transistor	UMX1N	
C 1824	(A,15,96)	CKSRYB104K50	Q 57	01 (B,127,4	9) Transistor	UMX1N	Е
C 1831	(B,19,69)	CKSRYB104K50	Q 57		0) Transistor	UMX1N	
C 1832	(A,17,64)	CEVW101M16	Q 57	, , ,	2) Transistor	UMX1N	
C 1833	(B,22,69)	CKSRYB104K50	Q 57	04 (B,121,3	4) Transistor	UMX1N	
C 1841	(A,19,88) 100 μF/16 V	CCH1565	Q 57	0E /D 13E 3	0) Transistor	UMX1N	
C 1842	(A,15,88)	CKSRYB103K50	Q 59		i) Transistor	2SC4617	
C 1846	(A,15,85)	CKSRYB104K50	Q 59		Transistor	2SC4617	
C 1851	(A,99,14)	CKSRYB104K50	Q 59) Transistor	DTA144EE	
_			Q 59		,	TS8M1	
C 1852	(A,110,18)	CEVW101M16		• •			
C 1853	(A,118,29)	CKSRYB683K50	Q 59			TS8M1	
C 1861 C 1863	(A,95,36)	CKSRYB104K50 CKSRYB104K50	Q 59		(3) Transistor	2SC4617	
C 1863 C 1864	(A,91,48) (A,93,42)	CEVW101M25	Q 59		(3) Transistor	2SC4617	F
C 1004	(, 1,00,±L)	OF A AN IOUINIED	Q 59		6) Transistor	UMX2N	
C 1865	(A,105,49)	CKSRYB104K50	Q 59	UU (D,85,6U) Transistor	2SC4617	
C 1866	(A,93,31)	CEVW101M25					
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	Circ	cuit Symbol and No.	Part No.	Ci	rcuit Symbol and No.	Part No.
					•	<u>- u</u>
	D 5060	(A,75,28) Diode	1SS355	RESIST	<u>ORS</u>	
	D 5061	(A,73,39) Diode	1SS355			
	D 5100	(A,47,28) Diode	RB500V-40	R 5010	(A,32,41)	RS1/16S9100D
Α	D 5101	(A,61,29) Diode	UDZS5R1(B)	R 5011	(A,32,40)	RS1/16S1301D
	D 5102	(A,67,38) Diode	RB548W	R 5013	(B,23,49)	RS1/16S102J
	D 010L	(71,07,00) Blodd	11201011			
	D 5103	(A 64 20) Diodo	MA335	R 5014	(B,24,45)	RS1/16S103J
		(A,64,29) Diode		R 5015	(B,25,49)	RS1/16S474J
	D 5104	(B,70,27) Diode	UDZS5R1(B)			
	D 5105	(B,67,19) Diode	RB500V-40	R 5016	(A,28,40)	RS1/16S0R0J
	D 5183	(A,41,18) Diode	RB548W	R 5017	(A,19,46)	RS1/16S101J
_	D 5184	(A,38,19) Diode	RB548W	R 5018	(A,26,40)	RS1/16S561J
		· · · · · ·		R 5019	(B,43,47)	RS1/16S1501D
	D 5185	(A,41,14) Diode	RB548W		,	
	D 5186	(A,41,12) Diode	RB548W	R 5020	(B,41,47)	RS1/16S1501D
		, , ,				
	D 5187	(A,41,9) Diode	RB548W	R 5021	(B,43,50)	RS1/16S1501D
_	D 5200	(A,33,27) Diode	RB160M-30	R 5023	(B,23,51)	RS1/16S103J
В	D 5210	(A,20,26) Diode	RSX201L-30	R 5026	(B,24,54)	RS1/16S0R0J
				R 5027	(B,27,45)	RS1/16S1802F
	D 5231	(A,32,8) Diode	RB500V-40	R 5028	(B,26,52)	RS1/16S0R0J
	D 5233	(A,32,6) Diode	RB500V-40	11 3020	(0,20,32)	1101/10001100
	D 5234	(A,28,7) Diode	RB500V-40		(5.00.50)	
				R 5029	(B,28,50)	RS1/16S0R0J
	D 5360	(B,109,16) Diode	MA111	R 5030	(A,14,58)	RS1/16S103J
	D 5361	(B,116,13) Diode	UDZS5R6(B)	R 5031	(A,23,61)	RS1/16S101J
_				R 5032	(A,24,61)	RS1/16S101J
	D 5364	(B,114,13) Diode	UDZS5R6(B)	R 5033	(A,26,61)	RS1/16S101J
	D 5650	(A,53,48) Diode	1SS355	11 0000	(71,20,01)	1101/1001010
	D 5900	(B,98,56) Diode	UDZS6R2(B)	D 5004	(4.00.50)	D04/4004051
		, , ,		R 5034	(A,38,52)	RS1/16S105J
	D 5902	(B,78,60) Diode	RB751V-40	R 5035	(A,38,57)	RS1/16S105J
_	D 5903	(B,93,66) Diode	HZU6R2(B3)	R 5036	(A,26,64)	RS1/16S681J
С				R 5037	(A,30,62)	RS1/16S222J
	D 5904	(B,93,61) Diode	HZU6R2(B3)	R 5038	(B,29,55)	RS1/16S822J
	D 5905	(A,109,75) Diode	UDZS8R2(B)		(=,==,==)	
	D 5906	(A,132,55) Diode	MA147	D 5000	(D 20 E0)	DC1/100E001
	D 5907	(A,122,54) Diode	HZU6R2(B3)	R 5039	(B,30,58)	RS1/16S562J
		, ,	` ,	R 5040	(A,24,35)	RS1/16S391J
	D 5908	(A,128,55) Diode	MA147	R 5042	(B,49,47)	RS1/16S6200D
				R 5043	(B,46,48)	RS1/16S6200D
	L 5010	(A,11,59) Chip Coil	LCTAW100J2520	R 5044	(B,49,49)	RS1/16S6200D
	L 5011	(A,17,34) Chip Coil	LCTAW100J2520		(, , ,	
	L 5012	(A,13,44) Chip Coil	LCTAW100J2520	R 5045	(B,42,43)	RS1/16S0R0J
	L 5013	(A,22,33) Chip Coil	LCTAW100J2520		,	
	L 5014	(A,24,37) Inductor	CTF1334	R 5060	(A,80,39)	RS1/16S0R0J
	L 3014	(A,24,37) Inductor	011 1354	R 5061	(A,80,36)	RS1/16S101J
D		(A 75 00) OI: O !!	I OTAMA 00 10500	R 5062	(A,75,26)	RS1/16S104J
	L 5060	(A,75,22) Chip Coil	LCTAW100J2520	R 5063	(A,77,38)	RS1/16S101J
	L 5100	(A,44,27) Chip Coil	LCTAW100J2520			
	L 5101	(A,63,41) Inductor	LCTAW150J2520	R 5064	(A,74,37)	RS1/16S3001D
	L 5102	(A,70,28) Inductor	LCTAW2R7J2520	R 5065	(A,71,37)	RS1/16S82R0F
	L 5103	(B,65,20) Chip Inductor(1	OU) DTI 1096	R 5092	,	RS1/16S0R0J
	2 0100	(2,00,20) Omp madetor(1	00) 2121000		(A,77,44)	
_	L 5104	(B 65 00) Chin Industry(1)	0U) DTI 1006	R 5100	(A,42,39)	RS1/16S0R0J
	L 5104	(B,65,22) Chip Inductor(1	,	R 5101	(B,42,39)	RS1/16S0R0J
	L 5105	(B,65,18) Inductor	LCTC120K2125			
	L 5106	(B,52,18) Inductor	LCTC120K2125	R 5102	(A,42,38)	RS1/16S0R0J
	L 5181	(A,42,16) Chip Inductor(1	0U) DTL1096	R 5103	(B,42,38)	RS1/16S0R0J
	L 5200	(A,68,6) Inductor	CTF1488	R 5104	(A,42,36)	RS1/16S0R0J
		· · · · ·		R 5106	(A,46,40)	RS1/16S1003F
	L 5203	(A,37,25) Choke Coil 68 µ	ıH CTH1318		,	
E	L 5207	(A,44,9) Inductor	CTF1635	R 5107	(A,45,39)	RS1/16S101J
	L 5214	(A,19,19) Choke Coil 18 μ		R 5108	(B,45,39)	RS1/16S101J
	L 5230	(A,24,11) Inductor	CTF1635	R 5109	(A,45,38)	RS1/16S101J
	L 5300	(A,85,19) Inductor	CTF1635	R 5110	(B,45,38)	RS1/16S101J
				R 5111	(A,44,36)	RS1/16S101J
	L 5650	(A,42,45) Chip Coil	LCTAW100J2520	R 5112	, , , ,	RS1/16S0R0J
	L 5651	(A,58,73) Inductor	LCKBW100K2520	п эп2	(B,48,34)	1101/1000000
-		(A,129,27) Chip Coil	LCTAW100J2520	_	/A == 4 ···	B0441-51
	L 5700			R 5113	(A,50,44)	RS1/16S5101D
	T 5900	(A,116,64) Transformer	CTT1130	R 5114	(A,47,47)	RS1/16S0R0J
	TH5300	(B,107,40) Thermistor	CCX1051	R 5115	(B,59,37)	RS1/16S224J
				R 5116	(A,54,28)	RS1/16S101J
	X 5010	(A,22,68) Radiator 4.43 M	IHz(EW5) CSS1726	R 5117	(A,54,27)	RS1/16S0R0J
_	X 5011	(A,36,66) Radiator 3.58 M	, ,	11 3117	(11,07, <i>21)</i>	1101/10001100
F	X 5300	(A,111,45) Radiator 12.58		D 5446	(D.E4.00)	D04/4000D0 !
				R 5118	(B,51,38)	RS1/16S0R0J
	VR5101	(A,68,25) Semi-fixed 2.2 k		R 5119	(B,51,40)	RS1/16S101J
	VR5900	(A,79,57) Semi-fixed 15 k	요(OB) CCP1490	R 5120	(B,52,40)	RS1/16S101J
				0		

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<u>Circu</u>	it Symbol and No.	Part No.	Circu	uit Symbol and No.	Part No.	
	(A,56,28) (A,57,26)	RS1/16S101J RS1/16S0R0J	R 5217 R 5218	(A,22,14) (B,23,12)	RS1/16S102J RS1/16S684J	
R 5124 R 5125 R 5126	(B,54,40) (A,58,28) (B,54,38) (B,55,40) (B,59,28)	RS1/16S101J RS1/16S101J RS1/16S0R0J RS1/16S101J RS1/16S101J	R 5219 R 5220 R 5221 R 5222 R 5230	(B,35,30) (B,21,16) (B,24,19) (B,22,13) (A,26,9)	RS1/16S6801F RS1/16S1001F RS1/16S2000D RS1/16S182J RS1/16S2001F	A
R 5129 R 5130 R 5131	(B,59,26) (B,55,38) (B,58,30) (B,58,27) (A,63,34)	RS1/16S0R0J RS1/16S0R0J RS1/16S101J RS1/16S0R0J RS1/16S105J	R 5231 R 5300 R 5301 R 5302 R 5303	(A,24,7) (A,128,50) (A,128,49) (A,92,16) (A,92,18)	RS1/16S4700F RS1/16S473J RS1/16S473J RS1/16S473J RS1/16S223J	•
R 5134 R 5136 R 5137	(B,60,32) (A,62,39) (B,61,24) (A,61,26) (B,61,30)	RS1/16S0R0J RS1/16S391J RS1/16S103J RS1/16S3901D RS1/16S3901D	R 5304 R 5305 R 5306 R 5308 R 5309	(A,104,18) (A,100,33) (A,122,28) (A,123,36) (A,115,23)	RS1/16S473J RAB4C471J RS1/16S471J RAB4C471J RAB4C471J	В
R 5140 R 5141 R 5142	(A,62,33) (A,62,32) (A,65,32) (A,67,37) (A,67,42)	RS1/16S4702D RS1/16S243J RS1/16S6802D RS1/16S564J RS1/16S564J	R 5310 R 5311 R 5312 R 5313 R 5314	(A,124,41) (B,100,25) (B,107,42) (A,107,46) (A,111,23)	RS1/16S473J RAB4C473J RS1/16S153J RAB4C123J RS1/16S473J	•
R 5145 R 5146 R 5147	(A,69,32) (B,70,30) (A,69,41) (A,67,29) (B,66,26)	RS1/16S683J RS1/16S105J RS1/16S0R0J RS1/16S103J RS1/16S272J	R 5315 R 5316 R 5317 R 5320 R 5321	(B,112,23) (B,112,40) (A,112,23) (B,109,23) (A,118,45)	RS1/16S103J RS1/16S473J RS1/16S471J RS1/16S102J RS1/16S0R0J	С
R 5150 R 5151 R 5152	(B,65,34) (B,70,33) (B,65,35) (B,70,35) (A,46,13)	RS1/16S272J RS1/16S332J RS1/16S101J RS1/16S331J RS1/16S103J	R 5322 R 5323 R 5324 R 5325 R 5326	(A,123,15) (A,120,46) (B,116,35) (A,109,23) (A,101,39)	RS1/16S102J RS1/16S0R0J RS1/16S473J RS1/16S471J RS1/16S103J	•
R 5155 R 5156 R 5157	(A,44,6) (B,57,20) (B,69,24) (B,61,37) (B,62,39)	RS1/16S273J RS1/16S333J RS1/16S152J RS1/16S101J RS1/16S0R0J	R 5329 R 5330 R 5331 R 5338 R 5341	(B,101,33) (A,123,33) (B,63,29) (B,119,49) (B,121,49)	RS1/16S0R0J RAB4C102J RS1/16S104J RS1/16S0R0J RS1/16S103J	D
R 5160 R 5180 R 5181	(A,71,26) (A,65,34) (B,39,16) (B,40,19) (B,38,20)	RS1/16S0R0J RS1/16S0R0J RS1/16S2703D RS1/16S3303D RS1/16S2202F	R 5343 R 5344 R 5345 R 5346 R 5350	(A,120,22) (A,100,29) (A,99,39) (A,98,38) (A,122,30)	RS1/16S473J RAB4C471J RS1/16S471J RS1/16S471J RS1/16S103J	
R 5184 R 5185 R 5186 R 5187	(B,38,18) (B,37,16) (A,38,7) (A,38,9) (A,36,9)	RS1/16S1601F RS1/16S6202D RS1/16S3300F RS1/16S3302F RS1/16S1002F	R 5351 R 5352 R 5353 R 5360 R 5365 R 5366	(A,127,46) (EW5) (A,128,46) (UC) (A,131,46) (A,104,10) (A,103,10) (B,108,13)	RS1/16S473J RS1/16S473J RS1/16S473J RS1/16S102J RS1/16S102J RS1/16S105J	E
R 5189 R 5191 R 5192 R 5193	(B,29,20) (B,42,17) (B,31,24) (A,28,23) (B,27,20)	RS1/16S563J RS1/16S223J RS1/16S150J RS1/16S150J RS1/16S273J	R 5367 R 5650 R 5651 R 5652 R 5653	(B,112,13) (B,56,67) (B,59,66) (B,57,67) (B,51,71)	RS1/16S105J RS1/16S362J RS1/16S362J RS1/16S182J RS1/16S102J	
R 5195 R 5196 R 5197 R 5200	(A,20,14) (A,18,14) (A,20,12) (B,43,15) (A,70,4)	RS1/16S1500F RS1/16S1201F RS1/16S1500F RS1/16S0R0J RS1/16S0R0J	R 5654 R 5655 R 5656 R 5657 R 5658	(B,55,72) (B,60,66) (B,59,68) (B,57,69) (B,61,66)	RS1/16S103J RS1/16S362J RS1/16S182J RS1/16S103J RS1/16S362J	F
R 5204	(B,24,16) (A,135,19) (A,24,17)	RS1/16S682J RS1/16S0R0J RS1/16S333J	R 5659 R 5660	(B,62,68) (B,63,66)	RS1/16S182J RS1/16S362J	
•	5 -	6 AVIC	-D3/XU/UC	7	8	157

		1 -	2		3	4
	Circ	cuit Symbol and No.	Part No.	Cir	cuit Symbol and No.	Part No.
	R 5661	(B,64,70)	RS1/16S301J	R 5920	(A,120,54)	RS1/16S821J
	R 5662	(B,47,67)	RS1/16S101J	R 5922	(A,124,55)	RS1/16S4700D
	R 5665	(A,53,50)	RS1/16S474J	R 5935	(A,98,55)	RS1/16S0R0J
Α						
	R 5672	(B,57,60)	RS1/16S471J	R 5997	(A,43,75) (EW5)	RS1/10S0R0J
	R 5674	(B,61,60)	RS1/16S0R0J	R 5998	(A,48,75) (UC)	RS1/10S0R0J
	R 5675	(B,63,60)	RS1/16S101J			
	R 5676	(A,14,75)	RS1/16S470J	CAPACIT	<u>rors</u>	
	R 5678	(A,66,49)	RS1/16S101J			
	D 5000	(4.00.70)	D04/4004501	C 5010	(A,17,58) 10 μF	CCG1203
	R 5680	(A,66,72)	RS1/16S153J	C 5012	(A,21,37) 47 μF	CCG1233
	R 5681 R 5682	(A,64,74)	RS1/16S153J RS1/16S912J	C 5014	(B,26,45)	CCSRCH821J50
	R 5683	(A,66,76) (A,64,76)	RS1/16S392J	C 5015	(A,25,42)	CKSRYB105K10
	R 5684	(A,67,76)	RS1/16S2703F	C 5016	(B,29,45)	CKSRYB104K50
	11 3004	(A,07,70)	1101/1002/001	C 5019	(A,33,43) 10 μF	CCG1203
В	R 5685	(A,74,72)	RS1/16S103J	C 5019	(A,35,48) 10 μF	CEVW100M25
	R 5693	(A,15,75)	RS1/16S470J	C 5020	(B,21,54)	CKSRYB104K50
	R 5702	(B,136,50)	RS1/16S224J	C 5021	(A,37,47)	CKSRYB104K16
	R 5703	(B,125,39)	RS1/16S102J	C 5023	(B,37,48)	CKSRYB104K16
	R 5704	(B,138,50)	RS1/16S222J	0 0020	(2,01,10)	
				C 5024	(A,37,49)	CKSRYB104K16
	R 5705	(B,129,49)	RS1/16S224J	C 5025	(B,37,50)	CKSRYB104K50
_	R 5706	(B,123,38)	RS1/16S102J	C 5026	(A,37,50)	CKSRYB104K50
	R 5707	(B,131,49)	RS1/16S222J	C 5027	(B,37,51)	CKSRYB104K50
	R 5709	(B,130,46)	RS1/16S101J	C 5028	(A,15,54)	CEVW100M25
	R 5710	(B,127,30)	RS1/16S224J			
	D ==11	(D. 100, 00)	D04/4004001	C 5029	(A,38,53)	CKSRYB105K10
С	R 5711	(B,129,32)	RS1/16S102J	C 5030	(A,38,54)	CKSRYB682K25
O	R 5712	(B,126,30)	RS1/16S222J	C 5031	(A,38,56)	CKSRYB104K50
	R 5713 R 5714	(B,130,37)	RS1/10S121J RS1/10S101J	C 5032	(A,32,60)	CKSRYB103K50
	R 5714	(B,128,35) (B,119,37)	RS1/16S101J	C 5033	(B,28,58)	CKSRYB103K50
	11 37 17	(B,115,67)	1101/1001010	C 5004	(B 00 50)	CKCDVD 474K16
	R 5720	(B,21,49)	RS1/16S101J	C 5034 C 5035	(B,29,58)	CKSRYB474K16 CKSRYB104K50
	R 5721	(B,23,45)	RS1/16S0R0J	C 5035	(B,24,57) (A,24,64)	CCSRCH8R0D50
	R 5724	(B,120,32)	RS1/10S121J	C 5030	(A,33,62)	CCSRCH8R0D50
	R 5725	(B,124,32)	RS1/10S151J	C 5039	(A,26,33)	CKSRYB104K50
	R 5728	(B,132,30)	RS1/16S101J	0 0000	(71,20,00)	GROTT BTO-IROU
				C 5060	(A,78,27)	CCSRCH391J50
	R 5730	(B,133,29)	RS1/10S151J	C 5061	(A,76,38) 330 pF	CCG1247
_	R 5731	(B,131,27)	RS1/10S181J	C 5062	(A,75,25)	CKSRYB105K10
D	R 5751	(B,132,12)	RS1/16S0R0J	C 5100	(B,50,42)	CKSRYB104K50
	R 5752	(B,134,14)	RS1/16S0R0J	C 5101	(B,48,40)	CKSRYB104K50
	R 5753	(B,131,14)	RS1/16S0R0J			
	D 5754	(D 101 10)	DC4/40C0D0 I	C 5103	(A,45,43)	CKSRYB222K50
	R 5754 R 5755	(B,131,16)	RS1/16S0R0J RS1/16S0R0J	C 5104	(A,44,34) 10 μF	CCG1203
	R 5900	(A,128,10) (B,96,56)	RS1/16S103J	C 5105	(A,47,44)	CKSRYB104K50
	R 5900	(B,95,54)	RS1/16S104J	C 5106	(A,54,46) 330 pF	CCG1247
	R 5902	(B,97,54)	RS1/16S473J	C 5107	(B,51,43)	CKSRYB104K50
		v 1= 1= 1	- · · - · · - ·	C 5108	(B,54,28)	CKSRYB104K50
	R 5903	(B,90,56)	RS1/16S105J	C 5108	(B,53,31)	CKSRYB104K50
	R 5904	(B,85,58)	RS1/16S102J	C 5109	(A,54,44)	CKSRYB104K50
Е	R 5905	(B,86,56)	RS1/16S473J	C 5111	(B,54,34)	CKSRYB104K50
_	R 5906	(B,83,65)	RS1/16S363J	C 5112	(B,57,39)	CKSRYB224K16
	R 5907	(B,84,70)	RS1/16S513J		· · · · /	
				C 5113	(B,56,29)	CKSRYB104K50
	R 5908	(B,132,55)	RS1/16S105J	C 5114	(B,55,31)	CKSRYB104K50
	R 5909	(B,77,63)	RS1/16S102J	C 5115	(B,57,42)	CKSRYB104K50
_	R 5910	(A,83,57)	RS1/16S5602D	C 5116	(B,59,42)	CKSRYB104K50
	R 5911	(B,93,68)	RS1/16S103J	C 5117	(B,59,41)	CKSRYB104K50
	R 5912	(B,92,63)	RS1/16S103J			
	R 5913	(A,108,73)	RS1/16S103J	C 5118	(B,59,39)	CKSRYB104K50
	R 5914	(A,109,73) (A,109,73)	RS1/16S104J	C 5119	(B,57,36)	CKSRYB104K50
	R 5915	(A,109,73) (A,113,76)	RS1/16S621J	C 5120	(B,57,34)	CKSRYB104K50
_	R 5916	(A,113,76) (A,109,77)	RS1/16S473J	C 5121	(A,59,28)	CKSRYB105K10
F	R 5917	(A,116,75)	RS1/16S621J	C 5122	(A,63,36)	CKSRYB104K50
		() = j		C 5123	(A,63,39)	CCSRCH330J50
	R 5918	(A,120,73)	RS1/16S101J	C 5123	(A,65,39)	CCSRCH330J50
	R 5919	(A,118,73)	RS1/16S101J	0 0127	(, 1,00,00)	330.131.1333333
		•	AVIC-D3/XU	/UC		
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Circuit Symbol and	No. Part No.	Circu	uit Symbol and No.	Part No.	
C 5125 (A,68,43)	CCSRCH102J50	C 5232	(A,22,11) 10 μF	CCG1203	A
C 5126 (B,69,30)	CCSRCH561J50	C 5233	(B,26,14)	CKSRYB105K10	
C 5127 (A,69,30)	CKSRYB104K50	C 5234	(A,23,9)	CKSRYB104K25	
C 5128 (B,62,32)	CKSRYB104K50	C 5235	(B,31,16)	CKSRYB103K50	•
C 5129 (B,66,28)	CKSRYB104K50	C 5242	(B,30,12)	CKSRYB104K25	
C 5130 (B,59,35)	CKSRYB105K10	C 5247	(B,28,12)	CKSRYB104K25	
C 5131 (A,71,31)	CCSRCH102J50	C 5249	(B,27,12)	CKSRYB104K25	
C 5132 (A,73,31)	CCSRCH101J50	C 5300	(A,87,28)	CEVW330M10	
C 5133 (B,67,26)	CKSRYB104K50	C 5301	(B,107,25)	CKSRYF104Z16	•
C 5134 (A,67,34)	CCSRCH221J50	C 5302	(B,95,24)	CKSRYF104Z16	
C 5135 (B,70,34)	CCSRCH331J50	C 5303	(B,105,25)	CKSRYF104Z16	
C 5136 (B,69,18) 10 μF	CCG1203	C 5304	(B,107,39)	CKSRYB104K25	
C 5137 (A,16,38) 10 μF	CCG1223	C 5306	(B,112,22)	CKSRYB105K6R3	
C 5138 (A,11,38)	CEVW101M16	C 5307	(B,112,27)	CKSRYF104Z50	В
C 5139 (A,64,27)	CCSRCK2R0C50	C 5308	(A,114,45)	CKSRYF104Z16	
C 5142 (B,61,20)	CKSRYB105K10	C 5312	(B,119,46)	CKSRYB103K50	
C 5143 (B,61,22)	CKSRYB105K10	C 5313	(B,123,46)	CKSRYF104Z16	
C 5144 (B,54,20)	CKSRYB104K50	C 5314	(B,121,21)	CKSRYF104Z16	
C 5145 (B,61,18)	CKSRYB105K10	C 5360	(A,104,12)	CKSRYB473K50	•
C 5181 (B,43,18)	CKSQYF105Z25	C 5361	(A,103,12)	CKSRYB473K50	
C 5182 (B,35,18)	CKSQYF105Z25	C 5362	(B,117,13)	CKSRYB102K50	
C 5183 (A,38,17)	CKSRYB104K25	C 5363	(B,119,13)	CKSRYB102K50	
C 5184 (A,38,16)	CKSQYF105Z25	C 5364	(B,105,18)	CKSRYB104K10	
C 5188 (B,50,12)	CKSQYB105K16	C 5366	(B,110,13)	CKSRYB102K50	С
C 5190 (B,54,12)	CKSQYF225Z16	C 5367	(B,111,13)	CKSRYB102K50	
C 5191 (A,43,13)	CKSQYF225Z16	C 5651	(B,61,70) 10 μF	CCG1203	
C 5192 (B,35,13)	CKSQYF105Z25	C 5652	(B,53,71)	CKSRYB104K16	
C 5193 (A,38,12)	CKSRYF474Z16	C 5654	(A,43,56) 10 μF	CCG1203	
C 5194 (A,38,13)	CKSRYF474Z16	C 5655	(A,47,54)	CKSRYB104K50	•
C 5195 (B,31,14)	CKSYF475Z16	C 5659	(A,55,50)	CKSRYB474K10	
C 5196 (A,40,20)	CKSRYB472K50	C 5660	(B,59,62)	CKSRYB104K50	
C 5197 (A,41,20)	CKSRYB472K50	C 5661	(A,43,48) 10 μF	CCG1203	
C 5199 (A,38,10)	CKSRYF474Z16	C 5663	(B,19,42)	CKSRYB104K50	
C 5200 (B,52,12)	CKSQYB105K16	C 5665	(A,67,72)	CCSRCH102J50	D
C 5201 (A,36,30) 33 μF/10	V CCH1586	C 5666	(B,68,71)	CFHXSQ562J16	
C 5202 (A,36,33)	CKSRYB104K25	C 5667	(A,60,73) 10 μF	CCG1203	
C 5203 (B,29,29)	CKSRYB103K50	C 5668	(A,62,67)	CEVW330M10	
C 5204 (A,29,29) 10 μF	CCG1223	C 5669	(A,68,55)	CKSRYB105K10	
C 5205 (B,33,19)	CKSRYB103K50	C 5670	(A,17,75)	CKSRYB104K16	•
C 5206 (B,32,19)	CKSRYB105K10	C 5700	(B,137,52)	CKSQYB475K6R3	
C 5207 (A,41,6)	CKSQYF105Z25	C 5702	(A,132,29) 10 μF	CCG1203	
C 5208 (B,30,17)	CCSRCH102J50	C 5705	(B,130,51)	CKSQYB475K6R3	
C 5209 (B,30,20)	CKSRYB104K25	C 5707	(B,126,28)	CKSQYB475K6R3	
C 5210 (A,70,7)	CKSQYF224Z25	C 5708	(B,134,22)	CKSRYB102K50	E
C 5211 (B,31,22)	CKSRYB105K10	C 5709	(B,134,20)	CKSRYB102K50	
C 5212 (A,24,28) 10 μF	CCG1223	C 5901	(A,94,52) 10 μF	CCG1223	
C 5213 (B,26,20)	CKSRYB104K25	C 5902	(B,100,54)	CKSRYB104K25	
C 5214 (A,24,24) 10 μF	CCG1223	C 5903	(B,99,49)	CKSRYB105K10	
C 5215 (A,14,25)	CKSRYB104K25	C 5904	(B,88,59)	CKSRYB104K25	•
C 5216 (A,16,27) 68 μF/10	V CCH1635	C 5905	(A,73,64)	CKSRYB104K25	
C 5217 (A,23,17)	CCSRCH101J50	C 5906	(A,75,69)	CKSRYB105K10	
C 5218 (B,24,26)	CKSRYB103K50	C 5907	(A,73,67)	CKSRYB474K10	
C 5219 (B,26,18)	CKSRYB103K50	C 5908	(A,73,66)	CKSRYB105K10	
C 5221 (A,21,14)	CCSRCH331J50	C 5909	(A,75,62)	CKSRYB562K50	F
C 5223 (B,28,17)	CKSRYB393K16	C 5910	(A,76,60)	CKSRYB152K50	
C 5224 (B,22,10)	CKSRYB103K50	C 5911	(B,79,67)	CKSRYB104K25	
C 5226 (B,22,16)	CKSRYB473K50	C 5912	(B,88,64)	CKSRYB473K50	
C 5228 (B,26,16)	CKSRYB393K16	C 5913	(B,134,55)	CKSRYB103K50	
C 5230 (B,32,12)	CCSRCH102J50	C 5914	(A,80,59)	CKSRYB221K50	
C 5231 (A,21,10)	CKSRYB104K25	C 5915	(B,89,69)	CKSRYB473K50	
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	Circ	uit Symbol and No.	Part No.	Cir	cuit Symb	ool and No.	Part No.
	C 5916	(A,89,57) 10 μF	CCG1223	IC 1301	(B,90,27)	IC	TC7SZ125FU
	C 5917	(A,89,64) 10 μF	CCG1223	IC 1351	(B,86,27)		TC7SZ08FU
	C 5918	(A,95,70)	CKSQYB105K16	IC 1352	(B,79,14)		TC74LCX16373FT
Α				IC 1401	(B,61,32)	Flash ROM Unit	CWW1428
	C 5919	(A,95,72)	CKSQYB105K16	IC 1402	(B,37,10)	Flash ROM Unit	CWW1429
	C 5920	(A,116,73)	CKSRYB104K25				
	C 5921	(A,137,58) 15 pF	CCG1194	IC 1403	(B,47,29)		TC7SZ32FU
	C 5922	(B,137,55)	CKSRYB153K50	IC 1481	(B,60,12)		EDS1232AATA-75
				IC 1501	(A,60,19)		MN2DS0016AAUB
				IC 1801	, , ,	D/A Converter	PCM1753DBQ
_	Keyboard	<u>Unit</u>		Q 1001	(B,77,67)	FET	RSQ030P03
	Consists	of			. . ·		
	Key PCB			Q 1003	(B,85,67)		QS5U27
	AV Mini Ja	ack BCB		Q 1101	,	Transistor	2SC4081
	AV WIIII J	ack FCD		Q 1102		Transistor	2SC4081
В				Q 1103		Transistor	2SB1260
Ь				Q 1104	(B,67,45)	Transistor	2SB1260
				D 1001	(P 90 64)	Chin Diodo	RB050L-40
	Unit Nu	mber:				Chip Diode	
	Unit Nar	ne :Keyboard l	Jnit	D 1002 D 1301	(A,89,67)	Chip LED	1SR154-400 CL205IRXTU
		•		L 1001	(B,73,62)	•	CTF1678
	MISCELL	ANFOUS		L 1001	(B,83,72)		CTF1677
	MIOOLLL	ANEOOO		L 1002	(0,00,72)	muuctoi	011 1077
	D 5501	(A,12,60) LED	NSSM025-6502	L 1003	(B,86,62)	Inductor	CTF1681
	D 5551	(B,5,6) Diode	MALS068X	L 1004	(B,63,60)		CTF1558
	D 5552	(B,8,18) Diode	MALS068X	L 1005	(B,81,49)		CTF1558
	D 5553	(B,11,6) Diode	MALS068X	L 1101	(B,66,54)		CTF1305
	D 5554	(B,8,6) Diode	MALS068X	L 1482	(B,77,29)		CTF1473
С	D 000 .	(2,0,0) 2.000	WW.EGGGGA		(=,::,==)		•
	S 5501	(A,11,26) Push Switch	CSG1155	L 1502	(A,71,47)	Inductor	CTF1378
	S 5502	(A,12,6) Push Switch	CSG1155	L 1503	(A,60,47)		CTF1487
	S 5503	(A,12,47) Push Switch	CSG1155	L 1504	(A,35,10)	Inductor	CTF1387
	S 5504	(A,11,68) Push Switch	CSG1155	L 1511	(A,63,3)		CTF1680
	S 5505	(A,12,74) Push Switch	CSG1155	L 1601	(A,41,23)	Inductor	CTF1473
		,			, , , ,		
_	S 5506	(A,23,76) Push Switch	CSG1155	L 1602	(A,55,42)	Inductor	CTF1473
	S 5507	(A,12,37) Rotary Switch(V	OLUME) CSD1142	L 1603	(A,54,42)	Inductor	CTF1473
				L 1604	(A,52,42)	Inductor	CTF1473
	RESISTO	RS		L 1605	(A,38,32)	Inductor	CTF1395
				L 1671	(A,41,19)	Inductor	CTF1473
D	R 5501	(A,16,46)	RS1/16S303J				
D	R 5502	(A,14,66)	RS1/16S303J	L 1672	(A,41,20)		CTF1473
	R 5503	(A,11,8)	RS1/16S183J	L 1673	(A,41,21)		CTF1473
	R 5504	(A,12,20)	RS1/16S103J	L 1801	(A,70,61)		CTF1473
	R 5505	(A,12,18)	RS1/16S822J	L 1901	(A,91,73)		CTF1487
				L 1902	(A,91,62)	Inductor	CTF1558
	R 5506	(B,10,50)	RS1/16S102J	V 4504	(4 40 40)	Ol 07 000 MI	0004744
	R 5507	(B,14,50)	RS1/16S102J	X 1501	,	Clystal 27.000 MI	
				VR1671		Semi-fixed 10 kΩ	
	CAPACITO	<u>ORS</u>		EF1501 EF1502		Chip EMI Filter Chip EMI Filter	DTL1106 DTL1106
				EF1901		Chip EMI Filter	DTF1106
	C 5503	(A,11,54)	CKSRYB104K25	LI 1301	(4,07,74)	Out Fini Linei	טווווט
	C 5504	(A,12,56)	CKSRYB104K25	EF1903	(A Q1 65)	Chip EMI Filter	DTL1106
Е	C 5505	(B,11,50)	CKSRYB103K50	LI 1905	(A,31,03)	Only Livil I liter	DILITOO
	C 5506	(B,13,50)	CKSRYB103K50	RESISTO)BS		
				<u>IILOIOIC</u>	<u> </u>		
	D			R 1001	(B,70,55)		RS1/16SS101J
				R 1001	(B,70,55) (B,72,51)		RS1/16SS1013
	Unit Nui	mber: CWX3401		R 1002	(B,72,51) (B,72,55)		RS1/16SS122J
	Unit Nar	ne : DVD Core l	Jnit	R 1005	(B,72,52)		RS1/16SS153J
-			-	R 1005	(B,72,52) (B,73,54)		RS1/16SS471J
	MISCELL	ANFOLIS		11 1000	(0,70,04)		1101/10004/10
	MICOLLL	ANEGGO		R 1007	(B,73,55)		RS1/16SS8201D
	IC 1001	(B,79,55) IC	BD9851EFV	R 1008	(B,70,56)		RS1/16SS4702D
	IC 1001	(B,72,42) IC	S-80859CNNB-B9K	R 1009	(B,72,56)		RS1/16SS561J
F	IC 1003	(B,75,48) Regulator IC	NJM2880U1-05	R 1010	(B,74,51)		RS1/16SS472J
ı.	IC 1004	(B,61,58) IC	S-L2980A50MC-C7J	R 1011	(B,72,40)		RS1/16SS104J
	IC 1005	(A,26,15) IC	BD7996EFV		,=,,,=0)		
	10 1201	(, 1,20,10)	227000E1 V	R 1013	(B,87,54)		RS1/16SS682J
					, ., , /		- : :
			AVIC-D3/XU/	UC			
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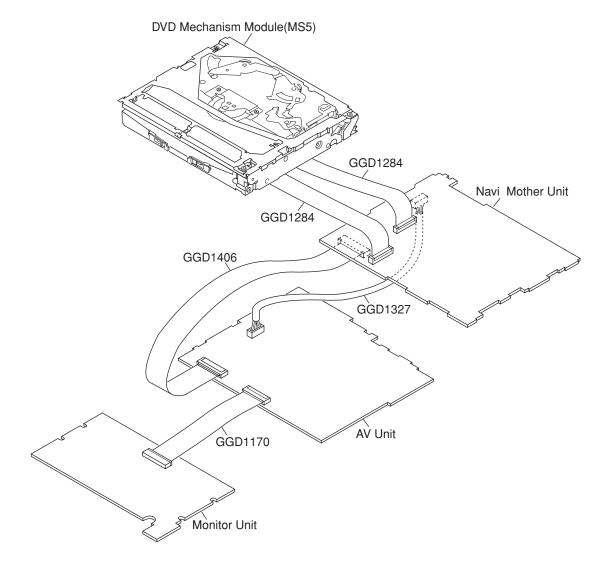
•	5	6		7	8		
Circu	it Symbol and No.	Part No.	Circ	uit Symbol and No.	Part No.		
	(B,88,54)	RS1/16SS1002D	R 1406	(B,26,4)	RS1/16SS104J		
	(B,88,53)	RS1/16SS472J	R 1407	(B,26,6)	RS1/16SS104J		
	(B,87,53)	RS1/16SS2202D	R 1410	(B,47,32)	RS1/16SS104J		
	(B,87,52)	RS1/16SS102J	R 1501	(B,71,3)	RAB4CQ560J		Α
	, , ,			, , ,			
	(B,87,51)	RS1/16SS101J	R 1503	(A,72,3)	RS1/16SS560J		
	(B,78,61)	RS1/16SS100J	R 1505	(B,68,3)	RAB4CQ560J		
	(B,77,61)	RS1/16SS100J	R 1507	(B,65,3)	RAB4CQ560J		
	(B,63,53)	RS1/16SS391J	R 1512	(B,59,3)	RAB4CQ560J		
R 1102	(B,63,47)	RS1/16SS511J	R 1513	(A,44,4)	RS1/16SS102J		
D 1100	(D 67 F0)	RS1/16SS391J	D 1515	(4.42.2)	RS1/16SS102J		
	(B,67,53)		R 1515	(A,43,3)			
	(B,69,47) (B,61,53)	RS1/16SS561J RS1/16SS6R8J	R 1520 R 1521	(A,35,8) (A,41,12)	RS1/16SS221J RAB4CQ101J		
	(B,65,53)	RS1/16SS6R8J	R 1522	(B,56,3)	RAB4CQ560J		
	(B,58,41)	RS1/10S1R5J	R 1523	(A,39,11)	RS1/16SS101J		
11 1100	(5,55,41)	1101/10011100	11 1020	(71,00,11)	1101/10001010		В
R 1110	(B,63,41)	RS1/10S1R5J	R 1524	(A,39,13)	RS1/16SS101J		
	(B,70,41)	RS1/10S1R5J	R 1525	(B,53,3)	RAB4CQ560J		
	(B,65,41)	RS1/10S1R5J	R 1526	(A,36,11)	RS1/16SS270J		
	(B,61,41)	RS1/10S1R5J	R 1528	(A,43,14)	RS1/16SS101J		
	(B,59,41)	RS1/10S1R5J	R 1529	(B,54,22)	RAB4CQ560J		
	, , ,			, , ,			
R 1115	(B,66,41)	RS1/10S1R5J	R 1530	(A,43,15)	RS1/16SS105J		
R 1116	(B,68,41)	RS1/10S1R5J	R 1531	(B,50,22)	RAB4CQ560J		
R 1117	(B,64,49)	RS1/16SS104J	R 1532	(A,77,23)	RS1/16SS103J		
R 1118	(B,70,49)	RS1/16SS104J	R 1533	(A,76,27)	RS1/16SS103J		
R 1202	(A,19,12)	RS1/16SS221J	R 1534	(A,77,26)	RS1/16SS103J		
							_
	(A,19,11)	RS1/16SS221J	R 1535	(A,63,36)	RS1/16SS221J		С
	(A,30,27)	RS1/16SS101J	R 1537	(A,67,41)	RS1/16SS221J		
	(B,26,18)	RS1/16SS3R9J	R 1538	(A,66,41)	RS1/16SS221J		
	(B,27,18)	RS1/16SS3R9J	R 1540	(A,71,44)	RS1/16SS102J		
R 1214	(B,28,18)	RS1/16SS3R9J	R 1541	(A,64,41)	RS1/16SS472J		
D 4045	(D. 00. 40)	D04/40000D04	D 4540	(4.00.00)	D04/40000001		
	(B,29,18)	RS1/16SS3R9J	R 1542	(A,60,36)	RS1/16SS223J		
	(B,30,18)	RS1/16SS3R9J	R 1543	(A,59,38)	RS1/16SS332J		
	(B,31,18)	RS1/16SS3R9J	R 1544	(A,57,41)	RS1/16SS183J		
	(A,20,27)	RS1/16SS101J	R 1545	(A,61,36)	RS1/16SS223J		
R 1223	(A,19,4)	RS1/16SS753J	R 1546	(A,59,42)	RS1/16SS104J		
D 1005	(A 10 7)	RS1/16SS753J	R 1547	(A 50 41)	RS1/16SS473J		
	(A,19,7) (B,13,21)	RS1/16SS3R9J	R 1547	(A,59,41) (A,59,36)	RS1/16SS104J		D
	(B,14,21)	RS1/16SS3R9J	R 1554	(A,60,40)	RS1/16SS221J		
	(B,15,21)	RS1/16SS3R9J	R 1555	(A,58,38)	RS1/16SS221J		
	(B,16,21)	RS1/16SS3R9J	R 1556	(A,43,8)	RS1/16SS104J		
11 1200	(5,10,21)	1101/100001100	11 1000	(71,40,0)	1101/10001040		
R 1231	(B,17,21)	RS1/16SS3R9J	R 1557	(A,57,40)	RS1/16SS104J		
	(B,18,21)	RS1/16SS3R9J	R 1559	(A,63,41)	RS1/16SS221J		
	(B,19,21)	RS1/16SS3R9J	R 1560	(A,68,42)	RAB4CQ104J		
	(B,20,21)	RS1/16SS3R9J	R 1562	(A,64,38)	RAB4CQ104J		
R 1240	(B,32,18)	RS1/16SS3R9J	R 1565	(A,73,36)	RS1/16SS103J		
	(B,33,18)	RS1/16SS3R9J	R 1566	(A,72,36)	RS1/16SS103J		
R 1242	(B,34,18)	RS1/16SS3R9J	R 1567	(B,68,22)	RAB4CQ560J		Е
	(B,38,18)	RS1/16SS3R9J	R 1568	(B,65,22)	RAB4CQ560J		_
	(B,36,18)	RS1/16SS3R9J	R 1569	(B,62,3)	RAB4CQ560J		
R 1245	(B,35,18)	RS1/16SS3R9J	R 1570	(B,60,22)	RAB4CQ560J		
D 4004	(5.44.44)	D04/40000044	D 4574	(B. 57.00)	DAD4005001		
	(B,14,14)	RS1/16SS391J	R 1571	(B,57,22)	RAB4CQ560J		
	(B,16,14)	RS1/16SS471J	R 1572	(A,47,3)	RS1/16SS103J		
	(B,87,23)	RS1/16SS563J	R 1573	(B,63,20)	RS1/16SS560J		
	(B,86,23)	RS1/16SS243J	R 1582	(A,82,26)	RS1/16SS103J		
R 1306	(B,85,23)	RS1/16SS683J	R 1583	(A,82,28)	RS1/16SS103J		
R 1307	(B,88,23)	RS1/16SS243J	R 1584	(A,77,28)	RS1/16SS103J		
	(B,86,21)	RAB4CQ822J	R 1601	(A,77,28) (A,41,25)	RS1/16SS103J		
	(B,84,25)	RS1/16SS331J	R 1602	(A,39,24)	RS1/16SS123J		_
	(B,72,33)	RS1/16SS221J	R 1602	(A,41,27)	RS1/16SS105J		F
	(B,50,27)	RS1/16SS104J	R 1609	(A,37,29)	RN1/16SE1002D		
	1 /= = / /			v /= / =/			
R 1405	(B,48,10)	RS1/16SS221J	R 1610	(A,43,29)	RS1/16SS222J		
	,		-D3/XU/UC				
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	Circ	cuit Symbol and No.	Part No.	Cir	cuit Symbol and No.	Part No.
		-			-	
	R 1613	(A,39,29)	RS1/16SS223J	C 1021	(B,60,60)	CKSRYB105K10
	R 1614	(A,46,36)	RS1/16SS105J			
	R 1615	(A,43,33)	RS1/16SS105J	C 1022	(B,79,47)	CKSSYB103K16
Α	R 1616	(A,53,36)	RS1/16SS2002D	C 1023	(B,79,49)	CKSSYB104K10
		(, 1,00,00)	,	C 1024	(B,71,48)	CKSQYB475K10
	D 1670	(A 40 01)	DC1/16CC202 I			
	R 1672	(A,43,21)	RS1/16SS303J	C 1025	(B,64,58)	CKSRYB105K10
	R 1673	(A,38,22)	RS1/16SS183J	C 1029	(B,70,54)	CKSSYB104K10
	R 1674	(A,34,23)	RS1/16SS562J			
	R 1705	(A,55,57)	RS1/16SS0R0J	C 1030	(B,88,51)	CKSSYB104K10
_	R 1706	(A,52,57)	RS1/16SS201J	C 1031	(B,86,55)	CKSRYB474K10
	11 1700	(,1,02,01)	1101/10002010	C 1101	(B,61,54) 10 μF	CCG1192
	D 4707	(A 55 54)	DC1/10000D01			
	R 1707	(A,55,51)	RS1/16SS0R0J	C 1102	(B,59,50) 100 μF	CCG1232
	R 1708	(A,52,50)	RS1/16SS201J	C 1103	(B,65,50) 100 μF	CCG1232
	R 1715	(A,60,56)	RS1/16SS201J			
	R 1716	(A,63,57)	RS1/16SS0R0J	C 1104	(B,63,44)	CKSSYB104K10
	R 1719	(A,60,50)	RS1/16SS201J	C 1105	(B,70,44)	CKSSYB104K10
В	11 17 10	(71,00,00)	1101/10002010	C 1106	(B,63,46)	CKSSYB103K16
_	D 4700	(4.00.54)	D04/40000D01		,	
	R 1720	(A,63,51)	RS1/16SS0R0J	C 1107	(B,70,45)	CKSSYB103K16
	R 1803	(A,72,56)	RS1/16SS821J	C 1108	(A,35,36)	CKSSYB103K16
	R 1804	(A,74,56)	RS1/16SS821J			
	R 1805	(A,72,62)	RS1/16SS104J	C 1109	(A,36,34)	CKSRYB105K10
	R 1806	(A,74,62)	RS1/16SS104J	C 1110	(A,35,37)	CKSSYB103K16
	11 1000	(14,74,02)	1101/10001040			
	D 4000	(A 00 FC)	D04/40000D5:	C 1111	(A,39,34)	CKSRYB105K10
_	R 1903	(A,89,52)	RS1/16SS0R0J	C 1201	(B,21,11)	CEVW101M16
	R 2001	(A,77,8)	RS1/16SS820J	C 1202	(B,15,17)	CKSYB475K16
	R 2003	(A,78,12)	RS1/16SS820J			
	R 2004	(A,77,14)	RS1/16SS820J	C 1207	(B,16,11)	CKSQYB225K10
	R 2005		RS1/16SS220J	C 1209		CKSSYB104K10
	n 2005	(A,77,17)	N31/1033220J		(A,32,17)	
_				C 1210	(A,32,19)	CKSSYB471K50
С	R 2006	(A,81,31)	RS1/16SS101J	C 1211	(A,19,17)	CKSSYB103K16
	R 2007	(A,80,7)	RAB4CQ820J	C 1212	(A,19,8)	CKSSYB104K10
	R 2009	(A,80,11)	RAB4CQ330J		(, , , ,	
	R 2010	(A,80,14)	RAB4CQ330J	C 1213	(A,19,10)	CKSSYB104K10
	R 2011	(A,80,19)	RAB4CQ330J	C 1301	(B,90,25)	CKSSYB104K10
				C 1302	(B,88,25)	CKSSYB104K10
	R 2012	(A,80,22)	RAB4CQ330J	C 1351	(B,86,25)	CKSSYB104K10
_	R 2014	(A,85,3)	RS1/16SS103J	C 1352	(B,76,19)	CKSSYB104K10
	R 2015	(A,77,19)	RS1/16SS103J	0 1002	(2,70,10)	ONGO I BIO II TIO
				0.4050	(D 04 40)	OKOOND404K40
	R 2017	(A,78,7)	RS1/16SS103J	C 1353	(B,81,19)	CKSSYB104K10
	R 2018	(A,87,4)	RS1/16SS103J	C 1354	(B,74,8)	CKSSYB104K10
				C 1355	(B,86,8)	CKSSYB104K10
	R 2019	(A,85,5)	RS1/16SS103J	C 1356	(B,84,28)	CKSYB106K6R3
D	R 2020	(A,89,4)	RS1/16SS103J	C 1401	(B,72,31)	CKSSYB103K16
	R 2021		RS1/16SS220J	0 1101	(2,72,01)	01100121001110
		(A,76,9)		0.4400	(D. 10.00)	01/00//04041/40
	R 2022	(A,77,9)	RS1/16SS820J	C 1402	(B,49,33)	CKSSYB104K10
	R 2023	(A,78,9)	RS1/16SS220J	C 1403	(B,81,27)	CKSQYB475K6R3
				C 1405	(B,48,8)	CKSSYB103K16
	CAPACIT	ORS		C 1406	(B,26,15)	CKSSYB104K10
	<u> </u>	<u> </u>		C 1407	(B,74,27)	CKSQYB475K6R3
-		(D. a.a. a.s.)		0 1407	(2,17,21)	O110011 PT/ 0110110
	C 1001	(B,68,60) 10 μF	CCG1171	0	(D. 47.07)	01/00/1040 ****
	C 1002	(B,68,59) 10 μF	CCG1171	C 1408	(B,47,27)	CKSSYB104K10
	C 1003	(B,73,57)	CKSRYB103K50	C 1481	(B,73,5)	CKSSYB104K10
	C 1004	(B,72,54)	CKSSYB681K50	C 1482	(B,73,8)	CKSSYB104K10
	C 1005		CKSSYB103K16	C 1483	(B,67,5)	CKSSYB104K10
	0 1005	(B,73,56)	01/3010100/10	C 1484	(B,63,5)	CKSSYB104K10
Ε	_			U 1404	(1,00,0)	01/00 10 104K 10
	C 1006	(B,74,52)	CCSSCH820J50	_	(5.55.5)	01/00/77
	C 1007	(B,75,57)	CKSSYB104K10	C 1485	(B,56,5)	CKSSYB104K10
	C 1008	(B,80,67) 10 μF	CCG1192	C 1486	(B,53,5)	CKSSYB104K10
	C 1009	(B,82,67) 10 µF	CCG1192	C 1487	(B,51,5)	CKSSYB104K10
				C 1488	(B,49,5)	CKSSYB104K10
	C 1010	(B,85,54)	CKSSYB222K50			
_				C 1490	(B,68,20)	CKSSYB104K10
	C 1011	(B,84,51)	CKSSYB104K10			
	C 1012	(B,84,58)	CKSSYB104K10	C 1491	(B,77,27)	CKSQYB106K6R3
	C 1014	(B,85,52)	CKSRYB105K10	C 1492	(B,55,20)	CKSSYB104K10
				C 1493	(B,52,20)	CKSSYB104K10
	C 1015	(B,81,61) 10 μF	CCG1171	C 1494		CKSSYB104K10
	C 1016	(B,86,57)	CKSRYB472K50		(B,65,20)	
				C 1496	(B,65,5)	CKSSYB102K50
F	C 1017	(B,88,52)	CKSSYB681K50			
•	C 1018	(B,81,60) 10 μF	CCG1171	C 1497	(B,61,20)	CKSSYB102K50
	C 1019	(B,58,59)	CCSSCH101J50	C 1498	(B,77,26)	CKSSYB102K50
		,		C 1499	(B,49,4)	CKSSYB102K50
	C 1020	(B,58,57)	CKSSYB104K10		,	
				C 1501	(A,68,45)	CKSQYB106K6R3
	100		AVIC-	D3/XU/UC		
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	Circu	iit Symbol and No.	Part No.		Circ	uit Symb	ool and No.	Part No.		
С	1502	(A,58,44)	CKSQYB106K6R3		C 1627	(A,43,23)	<u> </u>	CKSSYB104K10		
С	1503	(A,55,3)	CKSSYB104K10		C 1628	(A,54,36)		CKSSYB104K10		
	1504	(A,58,3)	CKSSYB104K10		C 1629	(A,49,36)		CKSSYB104K10		Α
	1505	(A,53,3)	CKSSYB104K10		C 1630	(A,38,30)		CKSQYB106K6R3		
	1506	(A,60,3)	CKSSYB104K10		C 1671	(A,43,18)		CKSSYB104K10		
	1507	(A,68,3)	CKSSYB104K10		C 1672	(A,43,19)		CKSSYB104K10		
С	1508	(A,65,3)	CKSSYB104K10		C 1673	(A,38,21)		CKSSYB104K10		
	1509	(A,70,3)	CKSSYB104K10		C 1674	(A,39,22)		CKSSYB104K10		
	1510	(A,43,11)	CKSSYB104K10		C 1675	(A,39,19)		CKSRYB105K10		
	1511	(A,77,7)	CKSSYB104K10		C 1676	(A,38,19)		CKSRYB105K10		
	1512	(A,76,11)	CKSSYB104K10		C 1677	(A,43,22)		CKSSYB104K10		
	1513	(A,43,10)	CKSSYB104K10		C 1801	(A,75,52)		CKSSYB104K10		
	1514	(A,76,17)	CKSSYB104K10		C 1802	(A,67,58)	10 μF	CCG1192		В
	1515	(A,43,16)	CKSSYB104K10		C 1803	(A,67,56)		CKSSYB104K10		В
	1516	(A,76,15)	CKSSYB104K10		C 1804	(A,70,58)	10 μF	CCG1192		
С	1517	(A,43,17)	CKSSYB104K10		C 1805	(A,70,56)		CKSSYB104K10		
C	1518	(A,37,15)	CCSSCH8R0D50		C 1808	(A,72,57)		CCSRCH182J50		
	1519	(A,37,16)	CCSSCH8R0D50		C 1809	(A,75,57)		CCSRCH182J50		
	1520	(A,49,3)	CCSSCH181J25		C 1810	(A,72,59)		CKSQYB475K6R3		_
	1521	(A,76,24)	CKSSYB104K10		C 1811	(A,74,59)		CKSQYB475K6R3		
	1522	(A,77,24)	CKSSYB104K10		C 1901	(A,84,74)		CKSSYB102K50		
Ū	.0	(', ' ', = ')		_		(, 1,0 .,, .)		0.100.12.102.100		
С	1523	(A,58,36)	CKSSYB104K10		Ξ					
С	1524	(A,58,37)	CKSSYB103K16							
С	1525	(A,66,36)	CKSSYB104K10		Unit Nur	nber:	CWX3154			
С	1526	(A,62,40)	CKSSYB103K16	ı	Unit Nan	no :	Compound	linit(A)		С
С	1527	(A,63,35)	CKSSYB471K50	•	Offic Ivan		Compound	Offic(A)		
0	1500	(A CE OC)	OKCOVB104K10		Q 1299	Photo-tara	ansistor	CPT231SCTD		
	1528	(A,65,36)	CKSSYB104K10		S 1201		vitch(12cm)	CSN1069		
	1529	(A,60,38)	CKSSYB103K16 CKSSYB224K6R3		S 1202		vitch(8cm)	CSN1069		
	1530 1531	(A,59,40)	CKSSYB123K16		S 1203		vitch(DISC SENS)			_
	1536	(A,57,42) (A,76,20)	CKSSYB104K10		S 1204		vitch(DISC SENS)			
C	1550	(A,70,20)	CK331B104K10				,			
С	1537	(A,55,44)	CKSSYB102K50		S 1205	Spring Sv	vitch(8cm)	CSN1070		
	1538	(A,53,44)	CKSSYB102K50		R 1298			RS1/16S0R0J		
	1539	(A,57,36)	CKSSYB104K10		R 1299			RS1/16S0R0J		
	1540	(A,61,38)	CKSSYB103K16	_						
	1560	(A,51,3)	CKSSYB104K10							D
		(, , ,			Lleait Nicon		OWY0004			
С	1577	(A,77,31)	CKSSYB104K10				CWX3394			
С	1601	(A,41,24)	CCSSCH101J50		Unit Nan	ne :	Compound	Unit(B)		
С	1602	(A,43,24)	CCSSCH101J50				•	` '		
С	1603	(A,38,23)	CCSSCH680J50		S 1206	Switch(Cl	_AMP)	CSN1067		
С	1604	(A,39,25)	CCSSCH680J50				,			
C	1608	(A,41,26)	CKSSYB103K16		Miscella	neous	Parts List			
	1609	(A,43,27)	CKSSYB103K16							
	1610	(A,53,39)	CCSSCH101J50			Pickup Ur	nit(Service)	CXX2118		
	1611	(A,54,38)	CKSSYB562K25		M 1		t(LOADING)	CXC4912		
	1612	(A,55,36)	CKSSYB224K6R3		M 2	Motor(ST		CXM1364		
O	1012	(A,33,30)	OROG 1 D224R0110		M 3	Motor(SP	,	CXM1362		Е
С	1613	(A,55,38)	CKSSYB224K6R3							
	1614	(A,56,38)	CKSSYB333K16							
	1615	(A,41,30)	CKSRYB105K10							
	1616	(A,48,36)	CKSSYB104K10							
С	1617	(A,49,38)	CKSSYB104K10							
_	1640	/A E1 20\	OKOOND404K40							
	1618	(A,51,38)	CKSSYB104K10							
	1619	(A,51,36)	CKSSYB104K10							
	1620	(A,50,36)	CKSSYB104K10							
	1621	(A,50,38)	CKSSYB104K10							
С	1622	(A,53,38)	CKSSYB104K10							
С	1623	(A,52,39)	CKSSYB104K10							F
	1624	(A,43,28)	CKSSYB103K16							
	1625	(A,56,36)	CKSSYB104K10							
	1626	(A,41,31)	CKSRYB105K10							
				AVIC-D3/2	XU/UC]			100	
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6. ADJUSTMENT

6.1 JIG CONNECTION DIAGRAM



Jigs List

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Name	Jig No.	Remarks
40P FFC BBR	GGD1284	DVD Core Unit (CN2001) <> Navi Mother Unit (CN2)
40P FFC BBR	GGD1284	DVD Core Unit (CN1901) <> Navi Mother Unit (CN2057)
20P Extension Cable	GGD1327	Navi Mother Unit (CN2068) <> AV Unit (CN1652)
80P FPC	GGD1406	Navi Mother Unit (CN2055) <> AV Unit (CN1711)
40P FFC BB	GGD1170	Monitor Unit (CN5001) <> AV Unit (CN1661)
TEST DISC	GGV1303	Operation check
Remote Control Uint	CXC6317	Operation for adjustment
TORX driver (T2)	GGK1095	SKEW adjustment (DVD)
Bond	GEM1033	SKEW adjustment (DVD)
Bond (Produced by THREE BOND)	1401M	SKEW adjustment (DVD)
TEST DISC	GGV1018	SKEW adjustment (DVD)

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6.2 DVD ADJUSTMENT



1) Precautions

This product uses 5 V and 3.3 V as standard voltages. The electrical potential that is the reference for signals, is not GND, but VREF (approximately 2.2 V) and VHALF (approximately 1.65 V).

During product adjustments, if the reference voltage is mistakenly taken as GND, and a grounding contact is made, not only would it be impossible to measure the accurate electrical potential, but also the servo motor would malfunction, resulting in the application of a strong impact on the pick up. The following precautionary measures should be strictly adhered to, in order to avoid such problems.

The reference voltage and GND should not be confused when using the minus probe of a measurement device. When an oscilloscope is being used special care should be taken to make sure that the reference voltage is not connected to the probe of ch1 (on the minus side), while the probe of ch2 (on the minus side), is connected to GND. Further, since the body frame of most measurement devices have the same electrical potential as the minus side of the probe, the body frame of the measurement device should be set to floating ground.

If the reference voltage is connected to GND by mistake, turn the regulator OFF immediately, or turn the power OFF.

- Remove the filters and wires used for measurements only after the regulator has been turned OFF.
- For stable circuit operation, keep the mechanism operating for about one minute or more after the regulator is turned on.
- Whenever the product is in the test mode, the software will not take any protective action. For this reason, special care should be taken to make sure that no mechanical or electrical shock could be applied to the product when taking measurements in the test mode.
- Whenever the EJECT key is pressed to eject the disk, no other keys, other than the EJECT key, should be pressed until the disk eject action has been completed.
- If the product hangs up turn the power OFF immediately.
- Laser didoes may be damaged, if the volume switch for the laser power adjustment of the pick up unit, is turned.

Attention)

- Test mode starting procedure
 Please select "MS5 check" to start test mode.
- Test mode stopping procedure ACC and Backup OFF.

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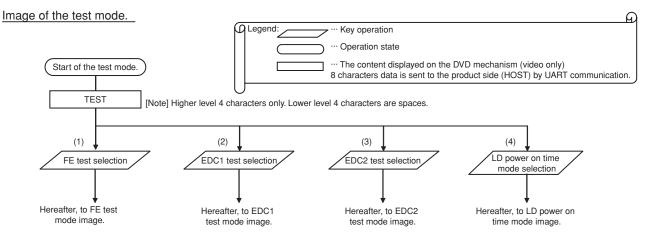
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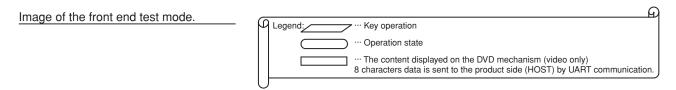
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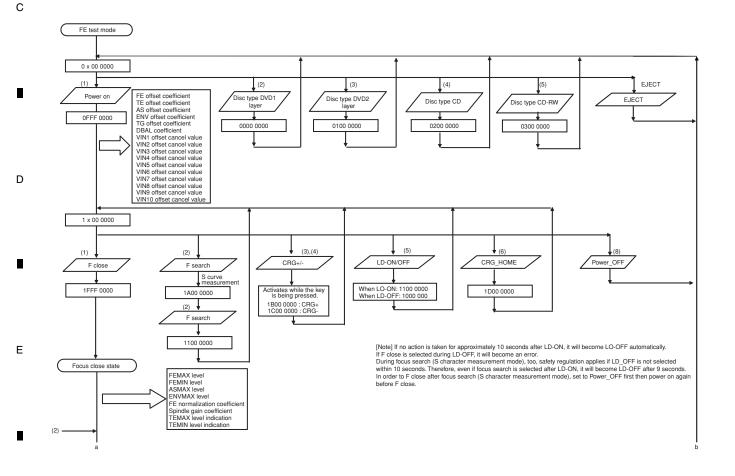
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[Note] In order to move on to another test after selecting a test (FE/EDC1/EDC2), it is necessary to restart the DVD mechanism in the test mode.





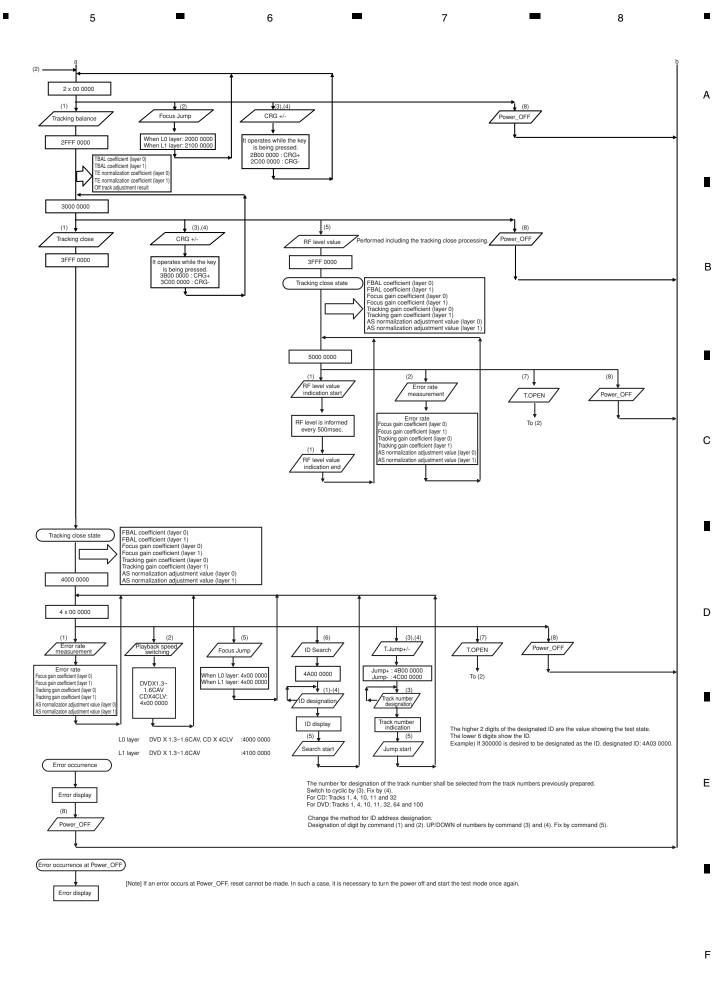
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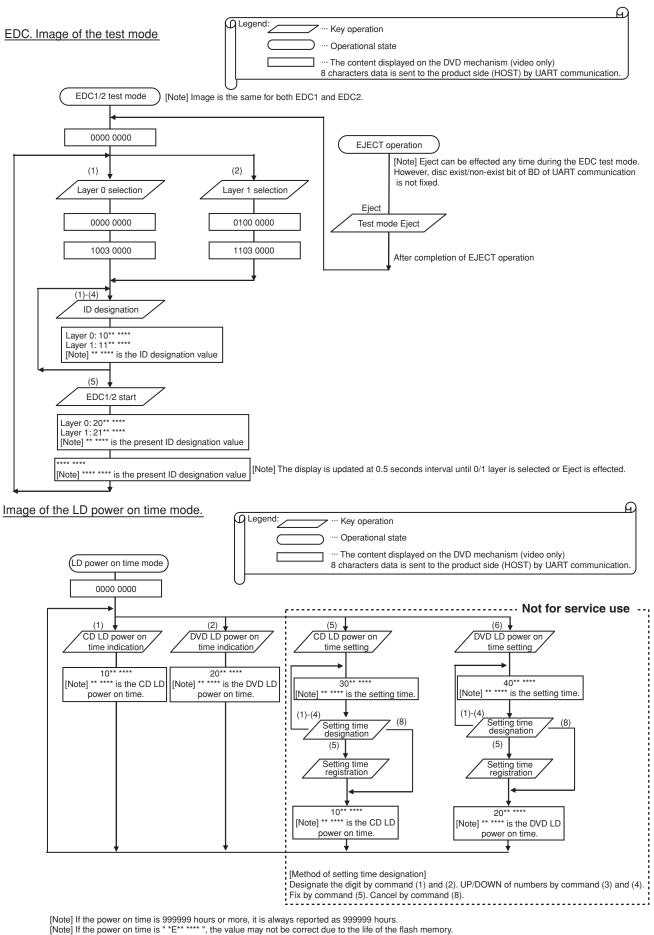
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					Method	of reset	
		UART		ACC	Source	Eject	Play Key
Error status	OSD *1	*2	Meaning	Off/On	Off/On	,	., .,
Media Error	It is a disc unable to be played back.	00h	A disc containing the unplayable Format only.	Х	Х	Х	
	NON-PLAYABLE DISC						
Open	(No display)	10h	Door open error	*	*	*	*
Read Error	ERROR-02-99	20h	Transfer start error	X	Х	Х	X
Focus Error(Focus Error in mechanism set up)	ERROR-02-90	21h	Focus error	Χ	X	Х	х
Surface Error	ERROR-02-9E	22h	Focus error during set up (A focus has never been achieved with that disc.)	Х	Х	Х	х
Address not found (Invalid Track)	ERROR-02-80	23h	Address not found.	Х	Х	Х	Х
Spindle Lock	ERROR-02-91	24h	Spindle lock NG (the disc cannot rotate)	Χ	Х	Х	Х
Carriage HOME	ERROR-02-92	25h	Carriage home NG (The pick up tries to return to carriage home, but it cannot go back and stopped.)	X	X	Х	Х
ID/SUBCODE Read Error	ERROR-02-94	26h	ID/SUBCODE Read Error (ID/SUBCODE cannot be read due to scratch or stain.)	Χ	Х	Х	Х
AV CHIP decode Error	ERROR-02-9A	2Ah	AV CHIP decode NG (AV chip cannot be decoded.)	Х	Х	Х	Х
AV CHIP Recovery NG	ERROR-02-9B	2Bh	AV CHIP recovery NG	Х	Х	Х	Х
Error of PLAY BACK Mode Status	ERROR-02-9C	2Ch	Playback state error (An error due to software bug.)	Х	Х	Х	Х
Disc Data Error	ERROR-02-9D	2Dh	Disc Data NG	Х	Х	Х	Х
Temp Error	Temperature protection circuit is		High temperature				
(In Case of High Temperature)	being activated. THERMAL PROTECTION IN MOTION	30h	(Playback is stopped because the pick up temperature is 89 °C or higher.)	Χ	-	-	-
No Disc (including Disc loading and ejecting)	(No display)	40h	Disc has not been inserted. (Including Load in process or Eject in process.)	*	*	*	*
Loading_Mecha Error	(No display)	50h	Loading mechanism error (The disc cannot be clamped.)	Χ	-	Х	-
DRM Error	It is a protected disc. PROTECTED DISC	70h	DRM error (All music cannot be played back due to DRM.)	-	-	Х	-
Region code Error NG	Region code is incorrect. DIFFERENT REGION DISC	90h	Region code NG (Unable to be played back due to incorrect mechanism region.)	-	-	Х	-
CPPM*3 Key Error *4	It is a disc unable to be played back. NON-PLAYABLE DISC	91h	Key Error for playback	-	-	Х	-
CPRM Key Error *7	NON-PLAYABLE DISC	93h	Key Error for playback	-	-	Х	-
AWM*5 Error *4	(No display)	*6	Playback the illegally copied disc by DVD-A (Mute the sound on the mechanism side.)	Χ	Х	Х	-
REQUEST error	ERROR-02-A0	A0h	REQUEST error	Х	Х	Х	Х
Failure in issuing read command (chip dependent)	ERROR-02-A1	A1h	Failure in issuing the read command	Х	Х	Х	Х
Adjustment of L0 is NG.	ERROR-02-A2	A2h	L0 adjustment is NG.	Х	Х	Х	Х
Adjustment of L1 is NG.	ERROR-02-A3	A3h	L1 adjustment is NG	X	X	X	X
LD system NG	ERROR-02-A4	A4h	LD system NG	X	X	X	X
Gain adjustment system NG.	ERROR-02-A5	A5h	Gain adjustment system NG.	X	X	X	Х
Gain determining system NG.		A6h	Gain determining system NG.	X	X	Х	Х
Servo initial setting related items NG.	ERROR-02-A7	A7h	Servo initial setting related items NG.	X	X	X	X
Disc is not clamped yet.	ERROR-02-A8	A8h	Disc is not clamped yet.	X	X	Х	X
Tracking system NG.	ERROR-02-A9	A9h	Tracking system NG	X	X	Х	X
Media setting system NG.	ERROR-02-AA	AAh	Media setting system NG	X	X	X	Х
Focus Error	ERROR-02-AB	ABh	JUMP over layers NG	Χ	Х	Х	Χ
Error of PLAY BACK Mode Status	ERROR-02-B0	B0h	Navigation command error	Х	Х	Х	Х
Error of PLAY BACK Mode Status	ERROR-02-B1	B1h	Retry over	Х	Х	Х	Х
Undefined Error	ERROR-FF-FF	FFh	Undefined error	Х	Х	Х	Х

when an error has occurred, only the audio output will be muted but playback operation will continue. Furthermore, acceptance of the user operation will be the same as usual.

*5 AWM (Audio WaterMark): Electronic watermark. Information on the copyright owner or CCI (copy control information) are recorded so that illegally copied discs can be identified.

*6 Notice as an error status will not be given

*7 CPRM(Content Protection for Recordable Media): A copyright protection technique for digital contents used for re-writable DVD or memory card. (DVD-VR model only)

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X: Cancel the error by operation. -: Error is not cancelled by operation. *: No setting

*1 A content displayed on OSD. As for the items having multiple display patterns, the upper row is for the Japanese version Full GUI, and the lower row is for the Touch Panel model and Full GUI (English version).

*2 A parameter of UART command, such as "receipt error notice", that the DVD mechanism transmits.

*3 CPPM(Content Protection for Prerecorded Media): A copyright protection technique used in DVD-A. The protection is realized by using the keys recorded on the media and the device key held by the player.

*4 DVD-A compatible model only.

When an error has occurred, only the audio output will be muted but playback operation will continue. Furthermore, acceptance of the user operation will be the same as usual.

When one of the following replacements has taken place, SKEW adjustment for the pick up will be required.

- (1) Replacement of the pick up unit

- (2) Replacement of the spindle motor
 (3) Replacement of the carriage chassis
 (4) Replacement of the main shaft of the pick up unit
- (5) Replacement of the sub shaft of the pick up unit

•Measurement equipment and tools/jigs: Oscilloscope

Driver for SKEW adjustment → TORX driver (T2) (GGK1095)

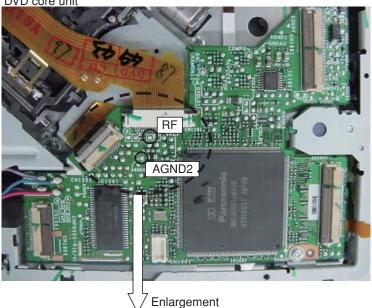
Bond for fixing the SKEW (GEM1033)

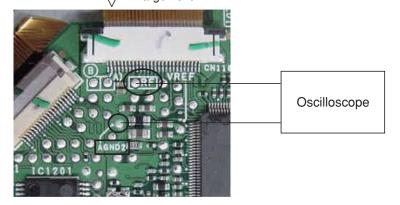
Bond for locking the screw (Locking agents (1401M: produced by THREE BOND))

·Disc used: GGV1018

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- Measurement reference: AGND2
- · Measurement point: RF
- Connection drawing DVD core unit





Symptom in case the adjustment is not adequate: Worsening of the error rate 10-3

(Normally 10-4 or less.)

Large RF jitter

RF waveform distortion

Tracking drawing/Unstable servo

* Caution: Do not look into the laser light during adjustment.

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There are two methods for adjustment, a method whereby the adjustment is made while monitoring the RF waveform using the oscilloscope (method ①) and a method whereby the adjustment is made while checking the RF level in value by OSD (method ②).

The adjustment procedure is shown below. Refer to the paragraph for the service test mode regarding entering of the test mode and the operation procedure.

Adjustment procedure:

- 1. Turn the DVD mechanism module upside down so that the pick up can be adjusted. When the module is turned upside down, there is a possibility that the disc is rubbed. So, first place a coin with the thickness of approximately 1.5mm on a desk, and set the module upside down in a way that section ① in the illustration below comes right above the coin.
- 2. Install the pick up. (Refer to the section regarding removal of the pick up from the mechanism unit.)

 As for the precautions in handling the pick up, refer to the precautions in handling the PU as described below.
- 3. Method 1:

Connect the oscilloscope by referring to the connection drawing so that the RF signal can be monitored with AGND2 as the reference.

Method 2:

There is no need for setting of any equipment. Proceed to step 4.

- 4. Turn the power ON, and load the disc for adjustment.(GGV1018)
- 5. After setting the disc type to DVD layer 1 in the front end test mode, turn the power ON, and move the pick up to the inner periphery. (CRG Home)
- 6. Turn the LD ON.
- 7. Set to focus close, and make auto adjustment for all items under that state, then set to tracking close. And make auto adjustment for all items under that state as well.
- 8. Make an intermediate periphery (ID: 100 000) search, and move the PU to intermediate periphery.
- 9. Method 1:

Proceed to step 10.

Method 2:

After setting to Tracking Open, make all auto adjustments, and set to Tracking Close this time with a command that can be RF displayed. Make auto adjustment for all items under that state as well.

10. Use TORX driver (T2) (GGK1095) for the following.

Method 1:

While monitoring the RF waveform on the oscilloscope, turn SKEW adjustment screw A just a little bit in a way that the level will reach the maximum.

While the pick up is at the intermediate periphery, turn SKEW adjustment screw B just a little bit in a way that the level will reach the maximum.

While the pick up is at the intermediate periphery, turn SKEW adjustment screw A just a little bit in a way that the level will reach the maximum.

(Make adjustment in the order of A -> B -> A, Please end the each adjustment by turning screw clockwise.) Method ②:

While monitoring the RF level value on the OSD display, turn the SKEW adjustment screw A just a little bit in a way that the level will reach the maximum.

While the pick up is at the intermediate periphery, turn SKEW adjustment screw B just a little bit in a way that the level will reach the maximum.

While the pick up is at the intermediate periphery, turn SKEW adjustment screw A just a little bit in a way that the level will reach the maximum.

(Make adjustment in the order of $A \rightarrow B \rightarrow A$, Please end the each adjustment by turning screw clockwise.) If the error rate is not good, please perform Method ① again.

- 11. Turn the power OFF in the test mode, and after confirming that the disc has stopped, eject the disc.
- 12. Apply adhesive for fixing the SKEW and lock the screw.

Refer to the illustration below for the adhesion points.

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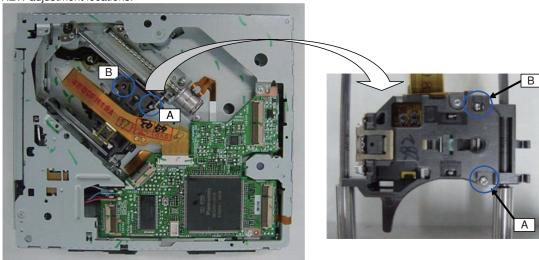
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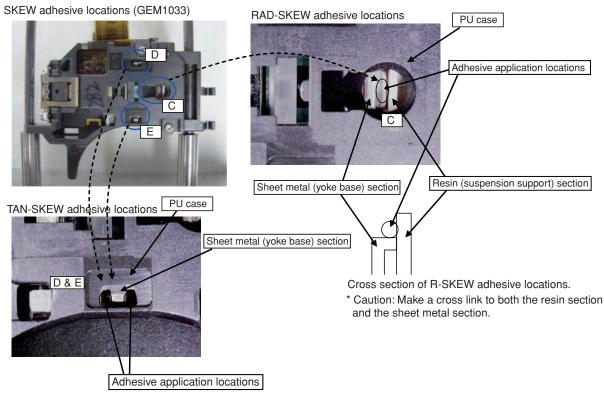
SKEW adjustment locations.

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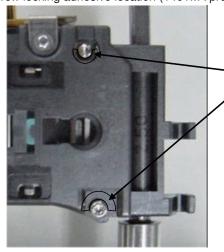




* Caution: Make a cross link to both the case section and the sheet metal section.

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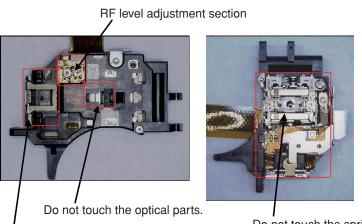
Screw locking adhesive location

Apply the locking agent for more than half of the screw head circumference.

* Caution: The locking agent shall not overflow to outside of the PU case.

Precautions in handling the PU.

* Caution: Do not touch the shaded section in the drawing below.



Hologram (be careful for the static electricity) GRT adjustment section

Do not touch the springs.

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BACK END section flow

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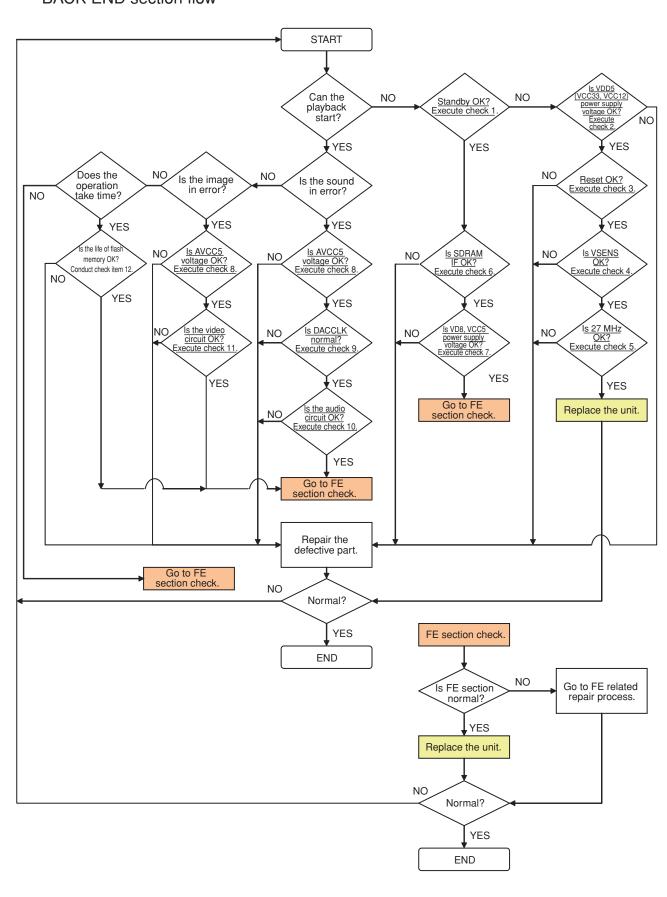
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Check 1: Standby OK?

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<Check> Check the voltage at the "STANBY" test point while the power is on. Use the "DGND1" test point at the reference.

NO.	Check point	Module No.	Specification value	Unit
1	STANBY-DGND1	ALL	VCC33 V-	V
			0.6 V or more	

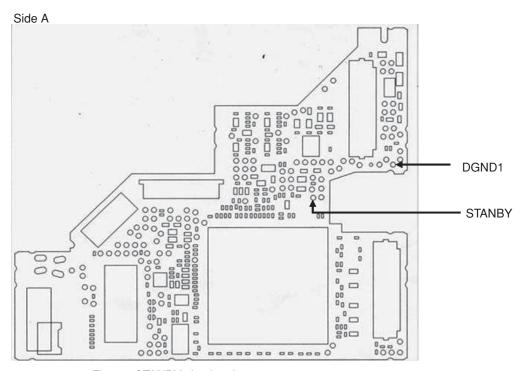


Fig 1.1: STANBY check point

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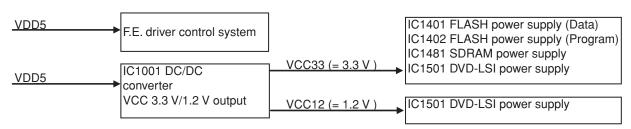
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Check 2: Is VDD5 (VCC33, VCC12) power supply voltage OK?



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Fig 2.1: Power supply configuration

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<Check> Check the voltage at the "VDD5_3, VCC33_3 and VCC12_1" test point while the power is on. Use the "DGND1" test point at the reference.

NO.	Check point	Module No.	Specification value	Unit
1	VDD5_3 - DGND1	ALL	5.0 ± 0.4	V
2	VCC33_3 - DGND1	ALL	3.3 ± 0.15	V
3	VCC12_1 - DGND1	ALL	1.2 ± 0.12	V

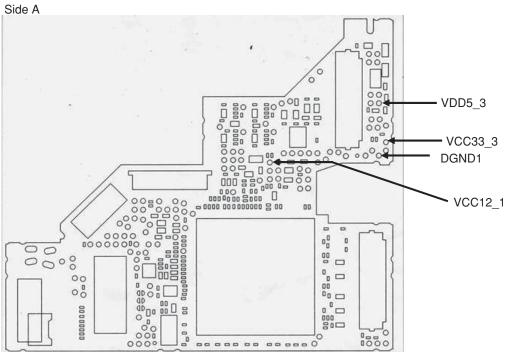


Fig 2.2: VDD5, VCC33, VCC12 voltage check points

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<Check> Check the voltage at the "XRES" test point while the power is on. Use the "DGND1" test point at the reference.

NO.	Check point	Module No.	Specification value	Unit
1	XRES-DGND1	ALL	VCC33 x	V
			0.7 or more	

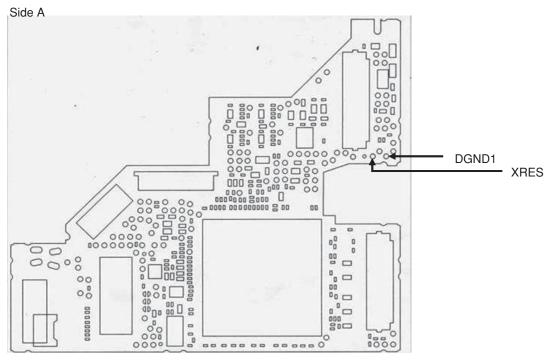


Fig 3.1: RESET check point

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Check 4: Is VSENS OK?

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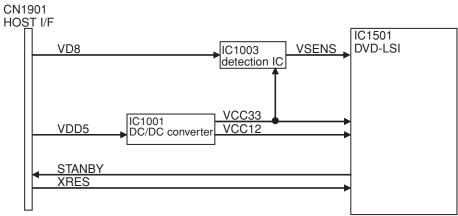
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Fig 4.1: Power supply configuration and VSENS

<Check> Check the voltage at the "VSENS" test point while the power is on. Use the "DGND1" test point at the reference.

NO.	Check point	Module No.	Specification value	Unit
1	VSENS - DGND1	ALL	VCC33 x 0.7	٧
			or more	

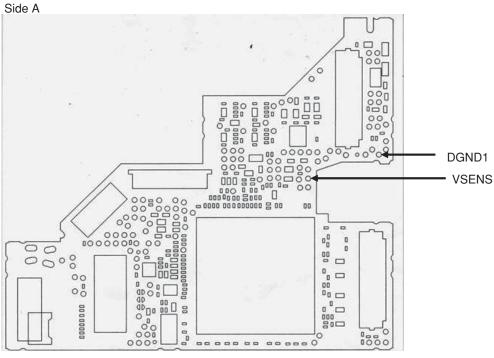


Fig 4.2: VSENS check point

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<Outline> Each clock is created inside the IC1501 using the 27 MHz master crystal oscillator (X1501).

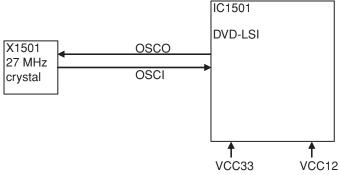


Fig 5.1: Clock configuration

<Check method> Turn the power on, and check with DGND being the reference. In case of NG, check the applicable line, periphery of IC1501, soldering of the peripheral components and defective components.

	NO.	Check point	Module No.	Specification value	Unit	
2	IC1501 169pin	ALL	27 MHz			
			± 50 ppm	ppm		

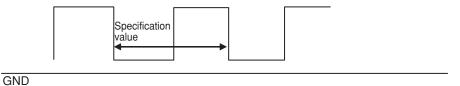


Fig 5.2: Clock specification value

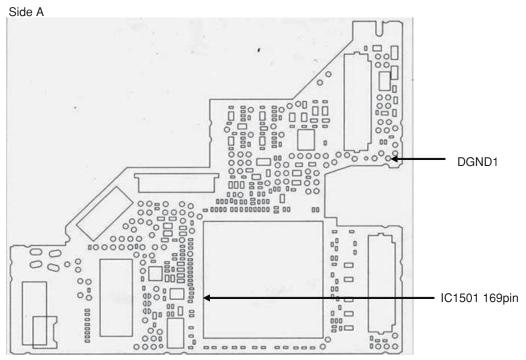


Fig 5.3: 27 MHz check point

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Check 6: Is SDRAM I/F OK?

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<Outline> In order to secure the MPEG stream data as the buffer,

the capacity of communication I/F SDRAM between the LSI and the memory is 128Mbit. Be careful as XCSM, XWE, XCAS, XRAS and XSCM of IC1481 are called differently in IC1501, namely NCSM, NWE, NCAS, NRAS, NCSM.

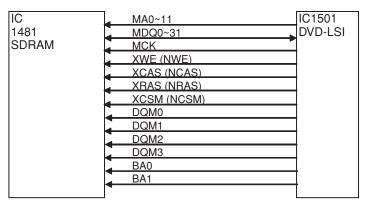


Fig 6.1: SDRAM I/F

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NO.	Signal name	Check point	t 1	Check point		Specification value
1		IC1481	25pin	IC1501	16pin	56 Ω ± 5 %
2	MA1	IC1481	26pin	IC1501	18pin	56 Ω ± 5 %
3	MA2	IC1481	27pin	IC1501	20pin	56 Ω ± 5 %
4	MA3	IC1481	60pin	IC1501	22pin	56 Ω ± 5 %
5	MA4	IC1481	61pin	IC1501	21pin	56 Ω ± 5 %
6	MA5	IC1481	62pin	IC1501	19pin	56 Ω ± 5 %
7	MA6	IC1481	63pin	IC1501	17pin	56 Ω ± 5 %
8	MA7	IC1481	64pin	IC1501	15pin	56 Ω ± 5 %
9	MA8	IC1481	65pin	IC1501	11pin	56 Ω ± 5 %
10	MA9	IC1481	66pin	IC1501	9pin	56 Ω ± 5 %
11	MA10	IC1481	24pin	IC1501	14pin	56 Ω ± 5 %
12	MA11	IC1481	21pin	IC1501	7pin	56 Ω ± 5 %
13	MDQ0	IC1481	2pin	IC1501	237pin	56 Ω ± 5 %
14	MDQ1	IC1481	4pin	IC1501	239pin	56 Ω ± 5 %
15	MDQ2	IC1481	5pin	IC1501	241pin	56 Ω ± 5 %
16	MDQ3	IC1481	7pin	IC1501	243pin	56 Ω ± 5 %
17	MDQ4	IC1481	8pin	IC1501	248pin	56 Ω ± 5 %
18	MDQ5	IC1481	10pin	IC1501	250pin	56 Ω ± 5 %
19	MDQ6	IC1481	11pin	IC1501	252pin	56 Ω ± 5 %
	MDQ7	IC1481	13pin	IC1501	254pin	56 Ω ± 5 %
21	MDQ8	IC1481	74pin	IC1501	253pin	56 Ω ± 5 %
22	MDQ9	IC1481	76pin	IC1501	251pin	56 Ω ± 5 %
23	MDQ10	IC1481	77pin	IC1501	249pin	56 Ω ± 5 %
24	MDQ11	IC1481	79pin	IC1501	244pin	56 Ω ± 5 %
25	MDQ12	IC1481	80pin	IC1501	242pin	56 Ω ± 5 %
26	MDQ13	IC1481	82pin	IC1501	240pin	56 Ω ± 5 %
27	MDQ14	IC1481	83pin	IC1501	238pin	56 Ω ± 5 %
28	MDQ15	IC1481	85pin	IC1501	236pin	56 Ω ± 5 %
29	MDQ16	IC1481	31pin	IC1501	29pin	56 Ω ± 5 %
30	MDQ17	IC1481	33pin	IC1501	31pin	56 Ω ± 5 %
31	MDQ18	IC1481	34pin	IC1501	33pin	56 Ω ± 5 %
32	MDQ19	IC1481	36pin	IC1501	37pin	56 Ω ± 5 %
33	MDQ20	IC1481	37pin	IC1501	39pin	56 Ω ± 5 %
34	MDQ21	IC1481	39pin	IC1501	41pin	56 Ω ± 5 %
35	MDQ22	IC1481	40pin	IC1501	43pin	56 Ω ± 5 %
36	MDQ23	IC1481	42pin	IC1501	45pin	56 Ω ± 5 %
37	MDQ24	IC1481	45pin	IC1501	44pin	56 Ω ± 5 %
38	MDQ25	IC1481	47pin	IC1501	42pin	56 Ω ± 5 %
	MDQ26	IC1481	48pin	IC1501	40pin	56 Ω ± 5 %
	MDQ27	IC1481	50pin	IC1501	38pin	56 Ω ± 5 %
41	MDQ28	IC1481	51pin	IC1501	34pin	56 Ω ± 5 %
	MDQ29	IC1481	53pin	IC1501	32pin	56 Ω ± 5 %
	MDQ30	IC1481	54pin	IC1501	30pin	56 Ω ± 5 %
	MDQ31	IC1481	56pin	IC1501	28pin	56 Ω ± 5 %
	MCK	IC1481	68pin	IC1501	234pin	$0.17~\Omega \pm \text{or lower}$
	XWE	IC1481	17pin	IC1501	3pin	56 Ω ± 5 %
	XCAS	IC1481	18pin	IC1501	4pin	56 Ω ± 5 %
	XRAS	IC1481	19pin	IC1501	5pin	56 Ω ± 5 %
	XCSM	IC1481	20pin	IC1501	6pin	56 Ω ± 5 %
	DQM0	IC1481	16pin	IC1501	255pin	56 Ω ± 5 %
51	DQM1	IC1481	71pin	IC1501	256pin	56 Ω ± 5 %
	DQM2	IC1481	28pin	IC1501	26pin	56 Ω ± 5 %
	DQM3	IC1481	59pin	IC1501	27pin	56 Ω ± 5 %
	BA0	IC1481	22pin	IC1501	8pin	56 Ω ± 5 %
	BA1	IC1481	23pin	IC1501	10pin	56 Ω ± 5 %

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Side B □005 8 .3: 100 0 2 # 00000000 000 00000000 00000 000 000000000000 000

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Check point 1 (IC1481)

1

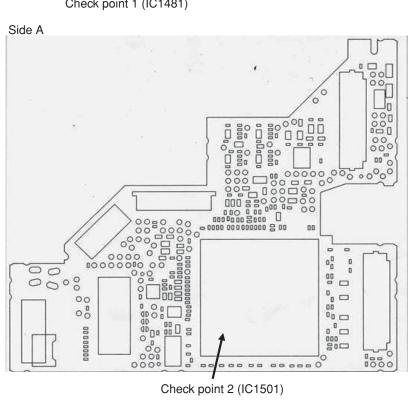
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Check point 2 (IC1501)

Fig 6.2: SDRAM I/F check point

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Check 7: Is VD8, VCC5 power supply voltage OK?

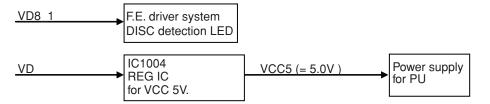


Fig 7.1: Power supply configuration

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<Check> Check the voltage at the "VD8_1, VD and VCC5_1" test point while the power is on. Use the "PGND3 and AGND1" test point at the reference.

NO.	Check point	Module No.	Specification value	Unit
1	VD8_1 - PGND3	ALL	8.0 ± 0.4	V
2	VD - PGND3	ALL	8.0 ± 0.4	V
3	VCC5_1- AGND1	ALL	5.0 ± 0.1	V

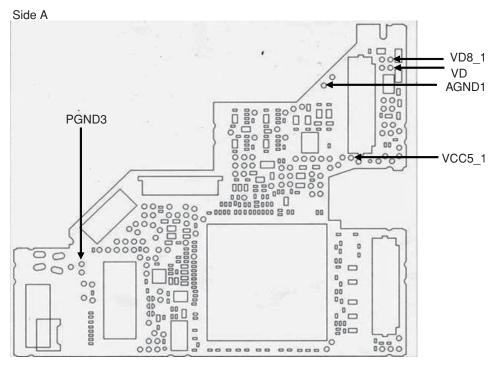


Fig 7.2: VD8, VCC5 voltage check points

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Check 8: Is AVCC5 voltage OK?

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VD IC1005

REG IC for AVCC 5 V.

AVCC5 (= 5.0 V)

AVCC5 (= 5.0 V)

Audio-DAC

2

Fig 8.1: Power supply configuration

<Check> Playback DVD-REF-A1 TITLE 1 and check the voltage at the stylus. Check with PGND and GNDAU being the reference.

NO.	Check point	Module No.	Specification value	Unit
1	VD - PGND_3	ALL	8.0 ± 0.4	٧
2	AVCC5 - GNDAU1	ALL	5.0 ± 0.1	V

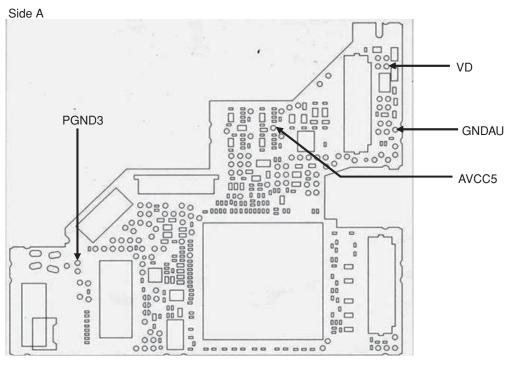


Fig 8.2: VD8, AVCC5 voltage check points

AVIC-D3/XU/UC

Check 9: Is DACCLK normal?

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<Outline> DACCLK for Audio-DAC is created by IC1501 using the 27 MHz master crystal oscillator (X1501).

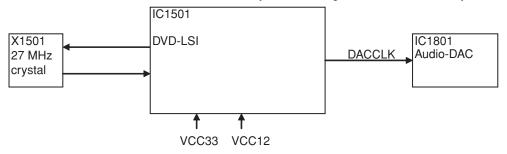


Fig 9.1: Clock configuration

<Check method>

DVD: DVD-REF-A1 TITLE 1 CD: Playback a normal CDDA.

Common to all DVD-V compatible modules.

Check with DGND being the reference.

In case of NG, check the applicable line, the periphery of IC1501, soldering of the peripheral components and defective components.

Ν	Ο.	Check point 1 (stylus)	Media	Specification value 1	Specification value 2	Specification value 3
	1	DACCK	DVD	2.0 V~VCC33 V	DGND~0.8 V	36.864 0 MHz ± 300 ppm
	2	DACCK	CD	2.0 V~VCC33 V	DGND~0.8 V	33.868 8 MHz ± 300 ppm

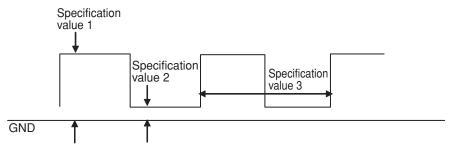


Fig 9.2: Clock specification value

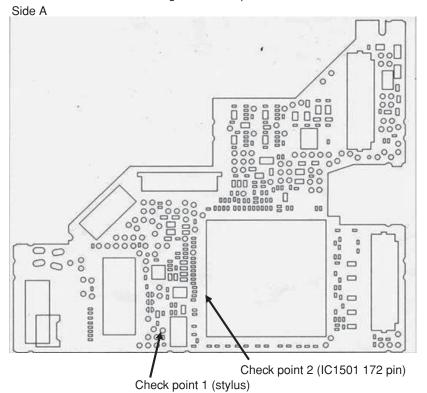


Fig 9.3: 27 MHz, DACCLK check point

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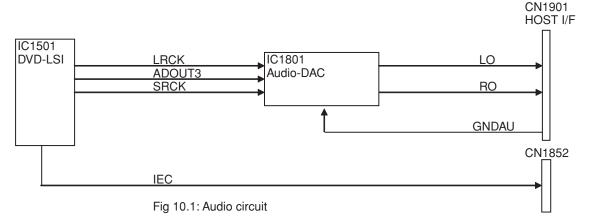
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Check 10: Is the audio circuit OK?

<Outline> The serial 3 lines digital output + DACCLK, output from DVD-LSI (IC1501), are converted to analog audio signal at Audio-DAC (IC1801) and are output from the HOST I/F (CN1901).
Simultaneously, the analog MUTE signal is also output from DVD-LSI (IC1501) via the HOST I/F.
The digital audio signal (IECOUT), output from DVD-LSI (IC1501), is output via CN1852.



<Check method> Playback DVD-REF-A1 TITLE 2 CHAPTER 1 (48 k/16 bit 1 kHz 0 dB), and check with DGND being the reference.

In case of NG, check the applicable line, periphery of major components as described in the above drawing, soldering of the peripheral components and defective components.

NO.	Check point 1 (stylus)	Specification value 1	Specification value 2	Reference waveform
1	ADOUT3	VCC33 V-0.6 V or higher	0.4 V or lower	Waveform 1
2	SRCK	VCC33 V-0.6 V or higher	0.4 V or lower	Waveform 2
3	LRCK	VCC33 V-0.6 V or higher	0.4 V or lower	Waveform 3

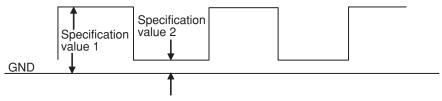


Fig 10.2: Serial 3 lines specification value

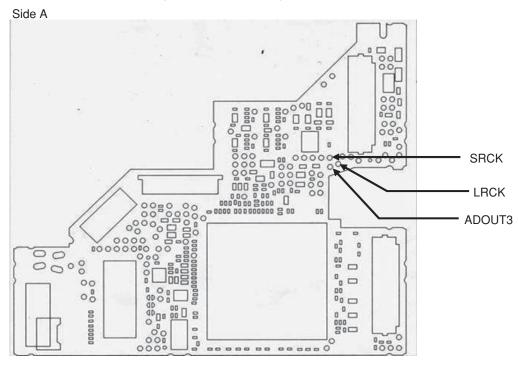


Fig 10.3: Serial 3 lines check points

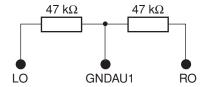
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The following checks shall be conducted using the following measurement circuits with GNDAU1 being the reference.



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Ν	10.	Check point 1 (stylus)	Specification value (rms)	Reference waveform
	4	LO	1 400 ± 150 mV	Waveform 4
	5	RO	1 400 ± 150 mV	Waveform 4

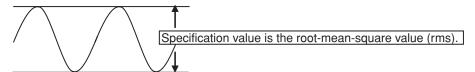


Fig 10.4: Analog audio out (LO, RO) specification value.

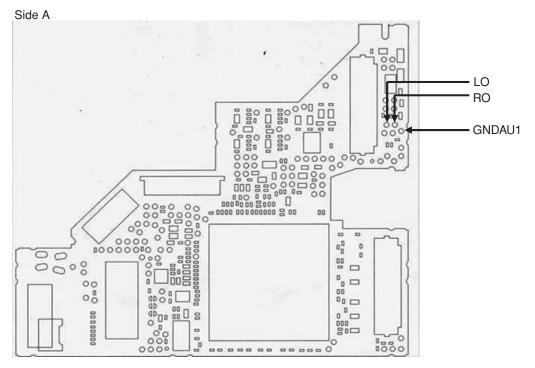


Fig 10.5: Analog audio out check point

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Check with DGND being the reference. Check 2pin cord after connecting it to a jig, etc.

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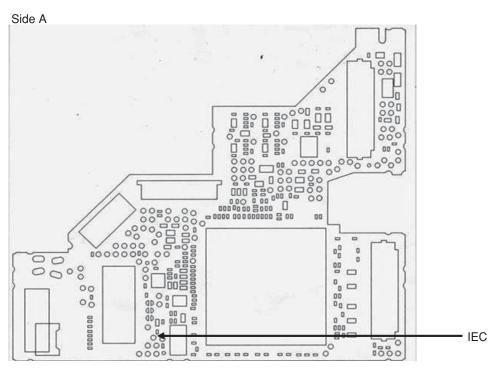
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NO.Check point 1 (stylus)Specification value 1Specification value 2Reference waveform6 IECVCC33 V-0.6 V or higher0.4 V or lowerWaveform 5

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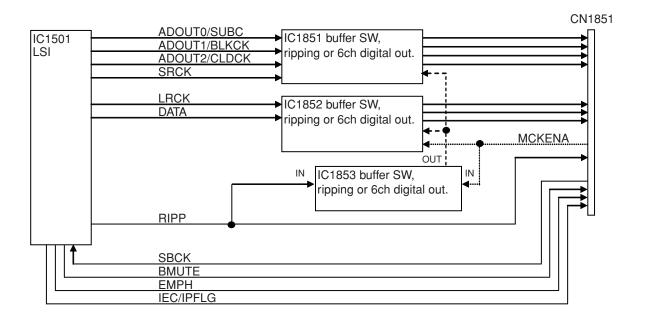
Fig 10.6: Digital audio signal (IECOUT) check point

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<Outline> At the time of 6ch digital out, the serial 6 lines output from DVD-LSI (IC1501) is output via CN1581. Furthermore, at the time of ripping, the serial 3 lines digital output + SUBC, output from DVD-LSI (IC1501), is output in 4 times speed via CN1851.



The signal at CN1851 for 6ch digital out/Ripping.

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Pin No.	Pin name	6ch digital out	Ripping
2	SRCK	SRCK	SRCK
4	LRCK	LRCK	LRCK
6	AD0/SUBC	ADOUT0	SUBC
8	AD1/BLK	ADOUT1	BLKCK
10	AD2/CLD	ADOUT2	CLDCK
12	AD3/DATA	ADOUT3	DATA
14	IEC/IPFLG	IEC	IPFLG
16	-	-	-
18	SBCK	-	SBCK
20	BMUTE	BMUTE	-
21	MCKENA	Low	High
22	RIPP	High	Low
23	EMPH	EMPH	EMPH
Pins 1, 3,	5, 7, 9, 11, 13, 15, 17	, 19 and 24 are GND	D.

Fig 10.7: 6ch digital out/Ripping circuit

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Playback DVD-REF-A1 TITLE22 CHAPTER 1, and check with GNDD being the reference.

In case of NG, check the applicable line, the periphery of the major components in the drawing above, soldering of the peripheral components and defective components.

Check 24pin FFC after connecting it to a jig, etc.

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NO.	Check point 1 (stylus)	Specification value 1	Specification value 2
7	SRCK	VCC33 V-0.6 V or higher	0.4 V or lower
8	LRCK	VCC33 V-0.6 V or higher	0.4 V or lower
9	ADOUT0	VCC33 V-0.6 V or higher	0.4 V or lower
10	ADOUT1	VCC33 V-0.6 V or higher	0.4 V or lower
11	ADOUT2	VCC33 V-0.6 V or higher	0.4 V or lower
12	IEC	VCC33 V-0.6 V or higher	0.4 V or lower
13	MCKENA	-	VCC33 V x 0.3 V or lower

Rip common CDDA, and check with GNDD being the reference.

In case of NG, check the applicable line, the periphery of the major components in the drawing above, soldering of the peripheral components and defective components.

Check 24pin FFC after connecting it to a jig, etc.

NO.	Check point 1 (stylus)	Specification value 1	Specification value 2
14	SRCK	VCC33 V-0.6 V or higher	0.4 V or lower
15	LRCK	VCC33 V-0.6 V or higher	0.4 V or lower
16	SUBC	VCC33 V-0.6 V or higher	0.4 V or lower
17	BLKCK	VCC33 V-0.6 V or higher	0.4 V or lower
18	CLDCK	VCC33 V-0.6 V or higher	0.4 V or lower
19	DATA	VCC33 V-0.6 V or higher	0.4 V or lower
20	SBCK	VCC33 V-0.6 V or higher	0.4 V or lower
21	RIPP	-	VCC33 V x 0.3 V or lower

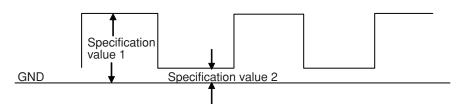
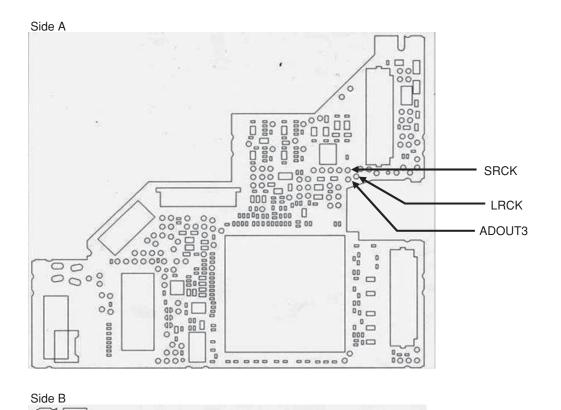


Fig 10.8: 6ch digital out/Ripping specification value

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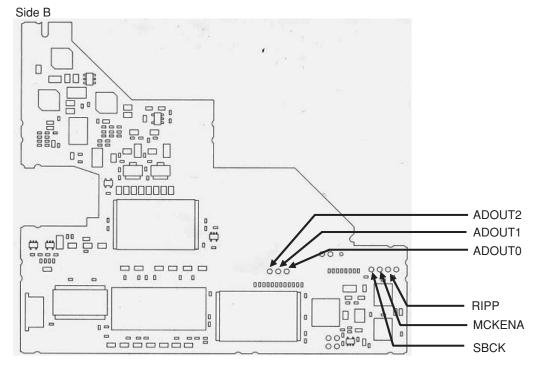


Fig 10.9: 6ch digital out/Ripping check point

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Check 11: Is the video circuit OK?

<Outline> Composite signal and component signal are output from DVD-LSI (IC1501), and are output from the HOST I/F (CN1901) via a buffer circuit.

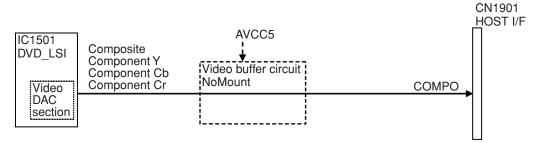


Fig 11.1: Video circuit

<Checking method> Playback DVD-REF-A1 TITLE2 CHAPTER5 (WHITE 100%), and monitor COMPO signal with an oscilloscope with GNDV1 (stylus) being the reference. Set the trigger mode to "TV trigger" and the trigger line to "150 line".

Check point 1 (stylus)

NO.		Specification value	Reference waveform
1	COMPO	1 000 mVpp ± 5 %	Waveform 6

In case of NG, check the applicable line, the periphery of the major components in the drawing above, soldering of the peripheral components and defective components.

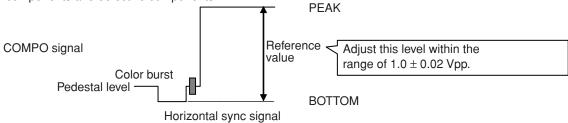


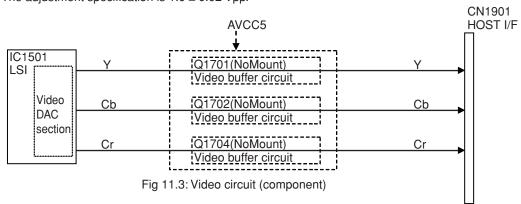
Fig 11.2: Waveform for the case of composite white 100% output

<Video level readjustment method>

In case the video composite output is outside of the specification value, readjust the level according to the method described below.

Turn the volume (VR1671) to adjust the video level within the range of 1.0 \pm 0.02 Vpp.

The adjustment specification is 1.0 ± 0.02 Vpp.



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NO.	Check point 1 (stylus)	Specification value	Reference waveform
2	Υ	1 000 mVpp ± 5%	Waveform 7
3	Cb	700 mVpp ± 5%	Waveform 7
4	Cr	700 mVpp ± 5%	Waveform 7

In case of NG, check the applicable line, the periphery of the major components in the drawing above, soldering of the peripheral components and defective components.

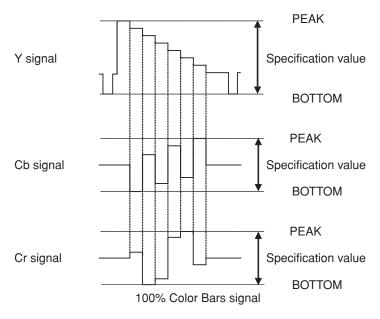


Fig 11.4 Waveform for the case of component 100% Color Bars output

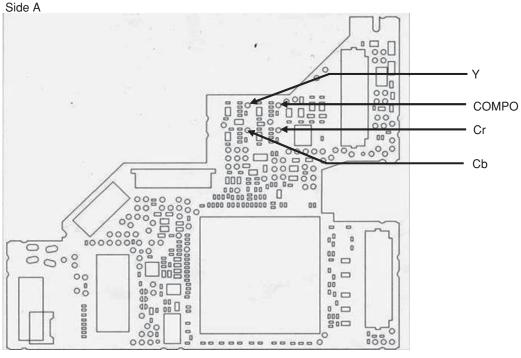


Fig 11.5: VIDEO signal check point

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Check 12:How to judge whether the flash memory has reached its life or not.

A If the reaction to user operation is slow or operation is slow in general, there is a possibility that the flash memory has reached its life.

Make judgment regarding the flash memory life by looking at the display of the LD energizing time.

- 1.Let the LD energizing time displayed.
- (Refer to the FE test mode for the method of displaying the LD energizing time.)
- 2.If the second digit from the left of the energizing time display is showing E, such as " * E * * * * * * * ", it means that the flash memory has reached its life.

Example:



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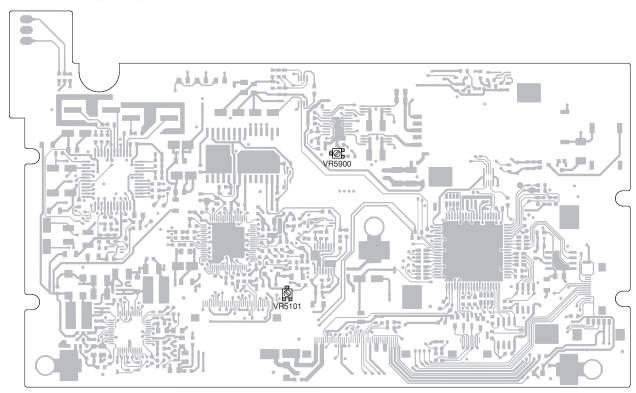
F

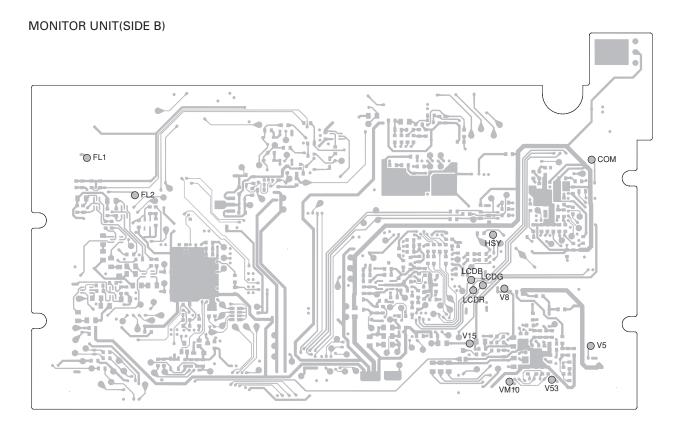
6.3 MONITOR UNIT ADJUSTMENT



Adjustment point

MONITOR UNIT(SIDE A)





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Power supply check

Adjustment item	Measuring point	Measuring Adjusting point I	Measuring method and specs.	Remarks
1 5 V power supply verification TP_V5	TP_V5		5.0 V ± 0.3 V DC	
2 8 V power supply verification TP_V8	8V_ 4 T		8.0 V ± 0.5 V DC	
3 5.3 V power supply verification TP_V53	TP_V53		5.3 V ± 0.5 V DC	
4 15 V power supply verification TP_V15	TP_V15		15.0 V ± 0.7 V DC	
5 -10 V power supply verification TP_VM10	TP_VM10		-10.0 V ± 0.8 V DC	

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Image related adjustment

	minage related adjustinient	211112111					
	Adjustment item	Measuring point	Adjusting point	Measuring method and specs.	pecs.		Remarks
9	PLL free run adjustment	TP_HSY	VR5101	f = 15.820 kHz to 15.830 kHz	KHz		Set TP_SYNI to Low. (Release it after PLL free run adjustment.)
							[Effect of deviation from the adjusted value]No sync on the screen.Displayed position on the screen shifts substantially to the left or to the right.
^	Register temporary setting	IC5011	IC5011 register	COM DC: 84 BRIGHT: 128 CONT-RGB1: 255 RGB AMPLITUDE: 255 COM AMPLITUDE: 255 GAMMA 1: 255 GAMMA 2: 255 SUB-BRIGHT R: 128 SUB-BRIGHT B: 128	CONT-VIDEO: 221 COLOR: 100 PICTURE: 16 TINT: 141 PALTINT: 150 PHASE: 221 INPUT MODE/SW: 00000000	221 100 16 141 (NTSC) 150 (PAL) 42 221 0000000	When you replaced EEPROM(IC5303), set it after executing reset of EEPROM. Procedure of reset 1. IC5300_pin20(EPRRST) is connected with GND. 2. Power-on of the product. 3. Power-off of the product. 4. IC5300_pin20(EPRRST) is opened.
8	COM AMP level	TP_COM		^ V.7 V ± 0.4 V			[Effect of deviation from the adjusted value]Dark screen (large amplitude)Bright screen (small amplitude)

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It is different from the black level during the image [Effect of deviation from the adjusted value] Effect of deviation from the adjusted value] If there are the black section and the white The side panel brightness at the time of screen The signal inverting timing being the reference, 30% section during 1 horizontal scanning, • The screen is whitish (small amplitude) it is OK even if it is not a 10 STEP signal. Effect of deviation from the adjusted value The screen is dark (large amplitude) • The screen is whitish (high voltage)
• The screen is dark (low voltage) = : section is the clamp level period. == : section is the clamp level period. Backward rotation side...4.9 (usec) the following periods are indicated. Floating white (small amplitude) Forward rotation side...4.9 (µsec) Sinking black (large amplitude) mode (normal) is affected. display period. Remarks 10 STEP signal (RGB 525 lines / 60 Hz) input 3.80 V \pm 0.02 V (clamp level \sim clamp level of the next line) $2.00 \text{ V} \pm 0.02 \text{ V}$ (10% white ~ 10% white of the next line) 10 STEP signal (RGB 525 lines / 60 Hz) input 10 STEP signal (RGB 525 lines / 60 Hz) input ← 4.9 (μSec) |IC5011 register | 10 STEP signal (HGB 5/25 innes / 00 nz/ innes / 00 nz/ innes / 00 white) | 2.00 V ± 0.02 V (clamp level ~ 30% white) Measuring method and specs. \wedge IC5011 register RGB AMPLITUDE IC5011 register BRIGHT (11h) Adjusting point Measuring TP_LCDG TP_LCDG TP_LCDG point Bright adjustment Adjustment item adjustment adjustment **RGB AMP** Gamma 1 တ 9 7

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Remarks	==: section is the clamp level period. If there are the black section and the white 100% section during 1 horizontal scanning, it is OK even if it is not a 10 STEP signal. [Effect of deviation from the adjusted value] • The bright section is scattered white (high voltage) • The screen is dark (low voltage)	*1 : A value set to IC5011 when the user contrast adjustment step is 00.	If there are the clamp level and the white 90% section during 1 horizontal scanning, it is OK even if it is not a 10 STEP signal. [Effect of deviation from the adjusted value] • The screen is reddish (high voltage on the LCDR side) • The screen is bluish (low voltage on the LCDR side)
Measuring method and specs.	10 STEP signal (RGB 525 lines / 60 Hz) input 4.00 V ± 0.03 V (clamp level ~ 100% white)	CONT-RGB1(06h) : DDh ····· *1	IC5011 register 10 STEP signal (RGB 525 lines / 60 Hz) input SUB-BRIGHT R Adjust SUB-BRIGHT R in a way that the difference of the following two will be within ± 0.02 V. • The clamp level to 90% white level of TP_LCDG. • The clamp level to 90% white level of TP_LCDR.
Adjusting point	IC5011 register GAMMA 2 (09h)	IC5011 register	IC5011 register SUB-BRIGHT R (12h)
Measuring point	TP_LCDG	IC5011	TP_LCDR TP_LCDR
Adjustment item	adjustment	13 Register setting	adjustment
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Remarks	If there are the clamp level and the white 90% section during 1 horizontal scanning, it is OK even if it is not a 10 STEP signal. [Effect of deviation from the adjusted value] • The screen is bluish (high voltage on the LCDR side) • The screen is yellowish (low voltage on the LCDR side)	AVIC-D3/XU/EW5 only 100% color bar signal A color bar of which the brightness level of the white section is 100% and the color carrier amplitude is 100% modulation. (EIA color bar, BBC color bar) An adjustment with the rise up edge of the FRPV signal being the trigger is recommended. The result of color adjustment is not saved in the EEPROM. [Effect of deviation from the adjusted value] PALTINT and PHASE adjustment can no longer be made appropriately.	AVIC-D3/XU/EW5 only An adjustment with the rise up edge of the FRPV signal being the trigger is recommended. [Effect of deviation from the adjusted value] Color flickering or horizontal stripes are observed during PAL image display.
Measuring method and specs.	10 STEP signal (RGB 525 lines / 60 Hz) input Adjust SUB-BRIGHT B in a way that the difference of the following two will be within ± 0.02 V. • The clamp level to 90% white level of TP_LCDG. • The clamp level to 90% white level of TP_LCDB.	100% color bar signal (PAL) input Execute step ① "Method of color adjustment (RB5P0090M)" after entering "PHASE ADJUSTMENT".	100% color bar signal (PAL) input Execute step ② "Method of color adjustment (RB5P0090M)" after entering "PHASE ADJUSTMENT".
Adjusting point	IC5011 register SUB-BRIGHT B (13h)	COLOR (02h)	IC5011 register
Measuring point	TP_LCDB	TP_LCDR	TP_LCDR
Adjustment item	Sub-bright B adjustment	PAL demodulation adjustment (COLOR preliminary adjustment)	PAL demodulation adjustment (PALTINT)
	15	16	17

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5 [Effect of deviation from the adjusted value] Color flickering or horizontal stripes are An adjustment with the rise up edge of the FRPV signal being the trigger is observed during PAL image display. AVIC-D3/XU/EW5 only recommended. Remarks Execute step ③ "Method of color adjustment (RB5P0090M)" after entering "PHASE ADJUSTMENT". 100% color bar signal (PAL) input Measuring method and specs. IC5011 register PHASE (04h) Adjusting point Measuring TP_LCDB point PAL demodulation Adjustment item adjustment (PHASE)

9

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*) Because step signal of the test disc (GGV1303) is interval in each step is not even, use the step which is near to the designated level referring to "Step signal level table".

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Step signal level table	
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White level (%)	100.0%	%6.96	93.8%	%9'06	87.5%	84.4%	81.3%	78.1%	75.0%	71.9%	68.8%	65.7%	62.5%	59.4%	56.3%	53.2%	50.1%	46.9%	43.8%	40.7%	37.6%	34.4%	31.3%	28.2%	25.1%	22.0%	18.8%	15.7%	12.2%	9.2%	6.2%	0.0%
32 step	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	6	8	7	9	2	4	3	2	-	0
10 step	10			6			8			7			9			2			4			3			2			1				0

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Inverter adjustment

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	Adjustment item	Measuring point	Adjusting point	Measuring method and specs.	Remarks
19	Backlight inverter basic driving frequency adjustment	TP_FL1 TP_FL2	VR5900	Set to IC5300 pin44 (INVPUL) = Low.	Connect a cold cathode tube equivalent to CWX3454-A between TP_FL1 and FL2. Measure at the waveform of TP_FL1 output after the voltage division or at TP_FL2. Do not measure TP_FL1 directly. (The measuring equipment may be damaged due to high voltage.)
20	Backlight inverter frequency switching check 1	TP_FL1		Set to IC5300 pin44 (INVPUL) = High impedance. Input the following waveform of 98.0 kHz ± 1.0 kHz to TP_INVPUL. 10% ± 2% >	Connect a cold cathode tube equivalent to CWX3454-A between TP_FL1 and FL2. Measure at the waveform of TP_FL1 output after the voltage division or at TP_FL2. Do not measure TP_FL1 directly. (The measuring equipment may be damaged due to high voltage.)
21	Backlight inverter frequency switching check 2	TP_FL1		Set to IC5300 pin44 (INVPUL) = High impedance. Input the following waveform of 104.0 kH ± 1.0 kHz to TP_INVPUL. 10% ± 2% >	Connect a cold cathode tube equivalent to CWX3454-A between TP_FL1 and FL2. Measure at the waveform of TP_FL1 output after the voltage division or at TP_FL2. Do not measure TP_FL1 directly. (The measuring equipment may be damaged due to high voltage.)

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Flicker adjustment

)					
	Adjustment item	Measuring point	Adjusting point	Measuring method and specs.	Remarks
22	22 Aging			Input the entire screen white signal (or the moving image). Leave the equipment in the operational state for 30 minutes or more.	
23	23 Flicker adjustment Screen	Screen	IC5011 register COM DC (15h)	Input a signal for flicker adjustment (RGB 525 line / 60 Hz). Make adjustment in a way that the screen flickering will become minimum.	A signal for flicker adjustment An image where white 50% and black is displayed alternately for each horizontal scanning line. Please refer to the "6.4 SERVICE ADJUSTMENT".

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	Remarks	If "PLEASE PUSH THE [RESET]" is not displayed in 2), it means a failure of succession. So, repeat from 1). If "PLEASE PUSH THE [RESET]" did not go away in 4), it means a failure of succession. So, repeat from 1).	justment Succession is not possible in the state of parking off.	arly without
	Measuring method and specs.	Make the following operation. 1) Reset while pushing the two buttons, [SOURCE] and [←]. (BUP and ACC on while pushing the buttons will also do.) 2) Release the key when "PLEASE PUSH THE [RESET]" is displayed on the screen. 3) Push in the order of [→], [←] and [←]. 4) Make sure that "PLEASE PUSH THE [RESET]" goes away.	Enter the Initial setting menu, and call out the (Dot clock) adjustment screen.	In case of vertical stripes of the test pattern shall be displayed clearly without rolling. OK NG Pressing "Back" or "ESC" key, setting value is stored in EEPROM. Then turn off the unit.
	Adjusting point			Touch key [-], [+], STEP 0~7.
int	Measuring point			Test pattern on the screen
Dot clock adjustment	Adjustment item	Calling out of line adjustment mode	Calling out of Dot clock adjustment mode	Dot clock adjustment
Ŏ		24	25	56

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Color adjustment method (RB5P0090M) (for PAL mode)

Step ① (Fig.1)

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- 1. Input the EIA color bar signal.
- 2. Monitor the ROUT terminal using an oscilloscope.
- 3. Adjust the COLOR register value in a way that the average level of white, yellow, magenta and red will be almost the same.

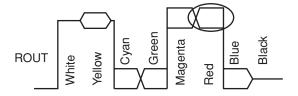


Fig. 1

The level differs for each horizontal period.

Step ② (Fig.2)

4. Adjust the TINT register value in a way that the level being shifted for each horizontal period will match.

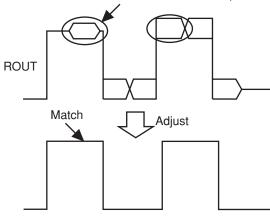
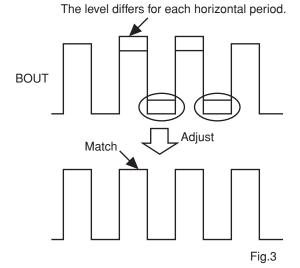


Fig.2

Step ③ (Fig.3)

- 5. Next, monitor the BOUT terminal.
- Adjust the PHASE register value in a way that the shifting of cyan, green and magenta region for each horizontal period will match.



Reference value after adjustment

E COLOR: 90 TINT: 152 PHASE: 40

: The points easier to be used for adjustment

ROUT...TP_LCDR BOUT...TP_LCDB

*) Because the result of adjustment will vary depending on the product, the value will not necessarily be close to the "Reference value after adjustment".

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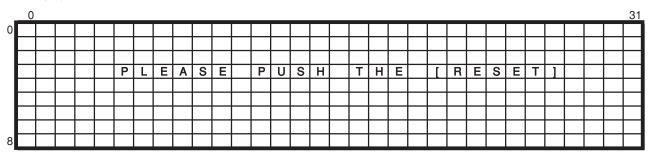
Ε

[Operational specifications]

• After replacing the LCD Module or Monitor Unit, this "SERVICE ADJUSTMENT" must be performed.

• Method1

If the monitor microcomputer is reset by double pressing of the SOURCE key + the [|<<] key, the following screen will be displayed on the OSD.



At this time, if the keys are pressed in the order of MENU → |<< →>>| → MAP, the system will proceed to the [Adjustment mode for service].

• Method2

If the monitor microcomputer is reset with the [SRVTEST] terminal set to Low, the system will proceed to the [Adjustment mode for service].

(You can get the same result by resetting, but it is not recommended as you will lose the user data.)

- *) When the succession is made by the terminal, the OSD display screen below will not be displayed.
- The key operations under this test mode are as follows.

(1): Main body key

Г	Key	Operation	Remarks
	<<	Adjustment value DOWN on the selected item	
Г	>>	Adjustment value UP on the selected item	

(2): Remote controller key (CXC6317 SW1 : AVH, SW2 : AVH)

	Key	Operation	Remarks
Г	←	Adjustment value UP on the selected item	
Г	→	Adjustment value DOWN on the selected item	

• A method to cancel [Adjustment mode for service] is described below. ACC OFF → ON. (BUP OFF → ON will do too.)

*) The preset value is first written in the EEPROM, then read out and displayed. Writing and reading are made in 16 bits. Depending on the setting item, the number of bit may be different.

AVIC-D3/XU/UC

Adjustment mode for service

[Picture source preparation]

After entering "Adjustment mode", insert TEST DISC (GGV1303) to the unit and select "11. Horizontal Line1" in the "19. Picture check MENU 2/2".

The specifications of the item adjusted on this page are as follows.

Adjustment item	Adjustment range	Adjustable name	Settings or written data (DEC)
Common inverted output center value	[0 to 255]	COM DC	84
Common inverted output center setting value (FACTORY preset value)	[0 to 255]	FACTORY	84

The actual image of the OSD display screen is as follows.

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
0	S	Е	R	٧		С	Ε		М	0	D	Ε																				
1																																
2		С	0	М		D	C												8	4												
3		[F	Α	C	Т	0	R	Υ]									8	4												
4																																
5																																
6																																
7																																
8																																

- *) The above characters are displayed in black with white rim.
- *) ">" mark indicates the selected item (cursor).
- *) There is no CS (check sum) display.

Note 1: The content of [FACTORY] is the default setting value for adjustment for each product adjusted in the line. (Rewriting can be done in EEPROM adjustment mode only.)

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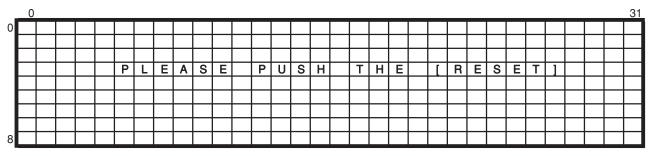
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[Operational specifications]

Method1

If the monitor microcomputer is reset by double pressing of the SOURCE key + the [|<<] key, the following screen will be displayed on the OSD.



At this time, if the keys are pressed in the order of |<< → MENU → >>| → MAP, the system will proceed to the [Flicker adjustment mode].

• Method2

If the monitor microcomputer is reset while the [EPRTEST] terminal is set to Low, the system will proceed to [Flicker adjustment mode].

(You can get the same result by resetting, but it is not recommended as you will lose the user data.)

*) When the succession is made by the terminal, the OSD display screen below will not be displayed.

• The key operations under this test mode are as follows.

(1): Main body key

Key	Operation	Remarks
SOURCE	Page turning	The screen succeeds in the order of [Flicker adjustment mode] → [Line adjustment mode1] →
SOUTIOL	age turning	[Line adjustment mode2] → [Flicker adjustment mode].
MENU	Upward search of selection item	If pressed when the cursor is pointing the top item in a page, the cursor will move to the lowest item.
MAP	Downward search of selection item	If pressed when the cursor is pointing the lowest item in a page, the cursor will move to the top item.
<<	Adjustment value DOWN on the selected item	
>>	Adjustment value UP on the selected item	

(2): Remote controller key (CXC6317 SW1 : AVH, SW2 : AVH)

Key	Operation	Remarks
MENU		The screen succeeds in the order of [Flicker adjustment mode] \rightarrow [Line adjustment mode1] \rightarrow [Line adjustment mode2] \rightarrow [Flicker adjustment mode].
†	Upward search of selection item	If pressed when the cursor is pointing the lowest item in a page, the cursor will move to the top item.
+	Downward search of selection item	If pressed when the cursor is pointing the top item in a page, the cursor will move to the lowest item.
←	Adjustment value UP on the selected item	
\rightarrow	Adjustment value DOWN on the selected item	

• A method to cancel [E2PROM adjust mode] is described below. ACC OFF → ON. (BUP OFF → ON will do too.)

*) The preset value is first written in the EEPROM, then read out and displayed. Writing and reading are made in 16 bits. Depending on the setting item, the number of bit may be different.

*) When a value subject to CS (check sum) computation is changed, it takes the exclusive (XOR) in 8 bit, and conducts writing.

This CS value, too, is read out after being written into the EEPROM, and that read out value is displayed.

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Flicker adjustment mode

В

The specifications of the item adjusted on this page are as follows.

Adjustment item	Adjustment range	Adjustable name	Settings or written data (DEC)
Common inverted output center value	[0 to 255]	*COM DC	84
		"*" is indicated if a value is	
		adjusted regardless of the	
		magnitude.	

The actual image of the OSD display screen is as follows.

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
0																																
1																																
2																																
3																																
4																																
5																																
6	F	L	1	С	K	Е	R																									
7																											\Box					
8	*	С	0	М		D	С												8	4												

^{*)} The above characters are displayed in black with white rim.

 Note 1: The content of [COM DC] is also reflected to the common inverted output center reference value (Refer to 07-2: EEPROM memory arrangement.xls.).
 (The common inverted output center reference value is treated as the initial value set in the line.)

Line 1 adjustment mode

The specifications of the item adjusted on this page are as follows.

Adjustment item	Adjustment range		Settings or written data (DEC)
Bright	[0 to 255]	BRIGHT	62
RGB1 contrast	[0 to 255]	CONT-RGB1	168
Black amplitude	[0 to 255]	RGB AMP AJ	232
Output amplitude	[0 to 255]	COM AMP AJ	150
GAMMA 1	[0 to 255]	GAMMA 1	157
GAMMA 2	[0 to 255]	GAMMA 2	116
Sub brightness R	[0 to 255]	SUB BRI R	128
Sub brightness B	[0 to 255]	SUB BRI B	128

The actual image of the OSD display screen is as follows.

_	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
0		В	R		G	Н	Т												6	2												
1		С	0	Ν	Т	-	R	G	В	1								1	6	8		Ν	0	Т		Е	Е	Р	R	0	М	
2		R	G	В		Α	М	Р		Α	J							2	3	2												
3		С	0	М		Α	М	Р		Α	J							1	5	0		Ν	0	Т		Е	Е	Р	R	0	М	
4		G	Α	М	М	Α	1											1	5	7												
5		G	Α	М	М	Α	2											1	1	6												
6		S	U	В		В	R			R								1	2	8												
7		S	U	В		В	R			В								1	2	8												
8																										С	S		F	F	F	F

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^{*) &}quot;>" mark indicates the selected item (cursor).

- *) The above characters are displayed in black with white rim.
- *) ">" mark indicates the selected item (cursor).
- *) CS: Check Sum
- Note 1: The content of [CONT-RGB1] and [COM AMP AJ] are the reference value (adjustable) for adjusting other items, and they are not saved in the EEPROM.

(It is so expressed by displaying "NOT EEPROM" as shown in the above OSD display screen image.)

Line 2 adjustment mode

The specifications of the item adjusted on this page are as follows.

Adjustment item	Adjustment range		Settings or written data (DEC)
VIDEO contrast	[0 to 255]	CONT-VIDEO	150
VIDEO color density	[0 to 255]	COLOR	168
VIDEO coloring (NTSC)	[0 to 255]	TINT	100
VIDEO coloring (PAL)	[0 to 255]	PALTINT	150
VIDEO sharpness	[0 to 31]	PICTURE	16
VIDEO PAL demodulation	[0 to 63]	PHASE	42
OSD contrast	[0 to 255]	CONT-RGB2	221
Operational mode	Note 2	INPUT MODE	00000000

The actual image of the OSD display screen is as follows.

(1) When a mode other than the "operational mode" is selected.

_	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
0		С	0	Ν	Т	-	٧		D	Ε	0							1	5	0		Ν	0	Т		Е	Е	Р	R	0	М	
1		С	0	L	0	R												1	6	8		Ν	0	Т		Е	Е	Р	R	0	М	
2		Т		Ν	Т													1	0	0		Ν	0	Т		Е	Е	Р	R	0	М	
3		Р	Α	L	Т		Ν	Т										1	5	0												
4		Р		С	Т	U	R	Е											1	6												
5		Р	Н	Α	S	Е													4	2											\Box	
6		С	0	Ν	Т	-	R	G	В	2								2	2	1												
7			Ν	Р	U	Т		М	О	D	Е		0	0	0	0	0	0	0	0												
8																										С	S		F	F	F	F

(2) When the "operational mode" is selected.

_	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
0	П	С	0	Ν	Τ	-	٧		D	Ε	0							1	5	0		N	0	T		Е	E	Р	R	0	М	
1		С	0	L	0	R												1	6	8		Ν	0	Т		Е	Е	Р	R	0	М	
2		Т		Z	Η													1	0	0		Ν	0	Т		Е	Е	Р	R	0	М	
3		Р	Α	┙	Н		Ν	Т										1	5	0												
4		Р		O	Τ	С	R	Е											1	6												
5		Р	Н	Α	S	Ε													4	2												
6		С	0	Ν	Н	-	R	G	В	2								2	2	1												
7		П	Ν	Р	\supset	Τ		М	0	D	Е		0	0	0	0	0	0	0	0												
8																										С	S		F	F	F	F

- *) The above characters are displayed in black with white rim.
- *) "▶" mark indicates the selected item (cursor).
- *) CS: Check Sum
- Note 1: The content of the following items are the reference value (adjustable) for adjusting other items, and they are not saved in the EEPROM.

(It is so expressed by displaying "NOT EEPROM" as shown in the above OSD display screen image.)

- · CONT-VIDEO
- · COLOR
- ·TINT

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• Note 2: Adjustment of the operational mode

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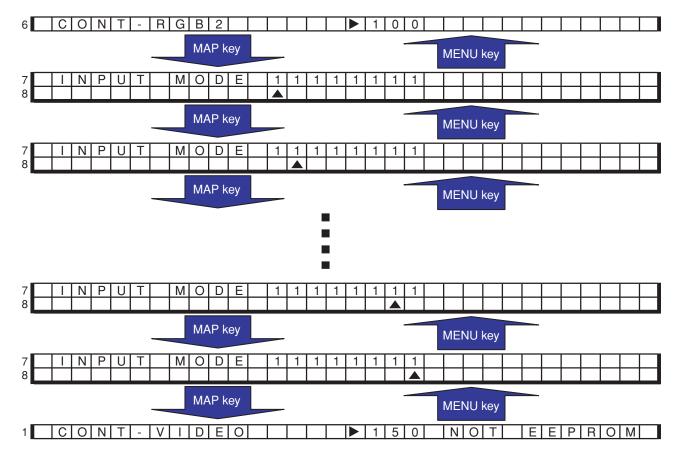
The precautions for adjustment of the operational mode are as follows.

- · Indicated in binary notation, and adjustable by bit only. (no carrying)
- · Not subject to CS computation.

While the basic operation is as described in the operational specifications sheet, the cursor movement is made according to the operation/succession shown below.

3

(The following descriptions are for the cases when the main body keys are operated.)



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EEPROM memory alignment chart (S-93C46BD0I-J8)

	ADDRESS	Bit15	Bit14	Bit13	Bit1	12	Bit11	Bit10	Bit9	Bit8	Bit7	Bit6	Bit5	Bit4	Bit3	Bit2	Bit1	Bit0
	0					(0)	M DC x54)				*1 (0x00)	Don't care (0x00)			PIC (CTURE 0x54)		
	1					(0)	t care x00)							(AMMA 1 (0x9D)			
Adjustment	2					(0)	MMA 2 x74)							(AMPLITUDE (0xE8)			
value of LCD	3					(0)	RIGHT R x80)							(BRIGHT B (0x80)			
	4						IGHT k3E)							(NT RGB 2 (0xDD)			
	5	*2 (0x00)	*3 (0x00)				F (PHASE (0x2A)							ALTINT (0x96)			
	6									Check	sum (LCD)							
	7					(0)	umference (2A)							(rcumference (0x33)			
	8					(0)	umference kF7)						0	(cumference (0xEE)			
	9					(0)	X coordin x00)							. (el Y coordina (0x04)			
	Α					(0)	X coordin x00)							(el Y coordina (0x02)			
	В					(0)	X coordin (FF)							(el Y coordina (0x01)			
	С					(0)	X coordin x00)							. (el Y coordina (0xFF)			
	D					(0)	X coordin k01)							. (el Y coordina (0xFD)			
	E					(0)	X coordin k01)							(el Y coordina (0x00)			
Adjustment	F					(0)	X coordin x01)							. (el Y coordina (0x01)			
value of Touch panel	10					(0)	X coordin x01)							. (el Y coordina (0x04)			
	11					(0)	X coordin x01)							. (el Y coordina (0x05)			
	12					(0)	K coordina k01)							(el Y coordina (0x02)			
	13					(0)	Coordina (01)							. (el Y coordina (0x00)			
	14					(0)	K coordina x01)							. (el Y coordina (0xFD)			
	15					(0)	K coordina x02)							. (el Y coordina (0xFD)			
	16					(0)	K coordina x02)							. (el Y coordina (0x00)			
	17					(0)	K coordina x02)							(el Y coordina (0x01)			
	18	Line	touch panel	Loonfirm		(0)	K coordina x02)		adiustmon	rocult		Tou		(el Y coordina (0x04) ircumference		at requit	
	19	Line	(O	0x00)	iation res	uit		Calibration	adjustmen (0x00)				cii pariei	outermost ci	(0x00)	aujustinei	it result	
	1A				INP	IIT MO	DE (LCD	IC)		Checksum	(Touch pane	l)		COM DC	(Factory val	110)		
	1B			Out		(0)	x00)	nin [USER]					Oute	((0x01)			
	1C					(0)	x00)	nax [USER]						((0x00) nference Y m			
	1D					(0)	x00) ordinate	-						((0x00) coordinate 1			
	1E					(0)	x00) ordinate							. ((0x00) coordinate 2			
	1F				-	(0)	x00) ordinate							((0x00) coordinate 3			
	20					(0)	x00) ordinate	-						. ((0x00) coordinate 4			
	21					(0)	x00) ordinate							((0x00) coordinate 5			
	22					(0)	x00) ordinate	-						((0x00) coordinate 6			
Adjustment	23					(0)	x00) ordinate							. ((0x00) coordinate 7			
value of	24				ouch par	(0)	x00)							. ((0x00)			
Touch panel (USER)	25					(0)	KUU)							(coordinate 8 (0x00) coordinate 9			
	26			Т,	ouch pan	(0)	oordinate (x00)	0 [USER]						. ((0x00) coordinate 10	-		
	27					(0)	x00)	1 [USER]						. ((0x00) coordinate 1			
	28					(0)	x00)	2 [USER]						((0x00) coordinate 12			
	29					(0)	x00)	3 [USER]							(UXUU)			
	2A				-	(0)	x00)	4 [USER]					Terr	ch panel V	coordinate 10 (0x00)	A [I I I CED]		
	2B					(0)	x00)							(coordinate 14 (0x00) coordinate 15			
	2C					(0)	x00)	5 [USER]						((0x00)			
	2D					(0)	x00)	6 [USER]				T		. (coordinate 16 (0x00)			
	2E			С	alibration	aajust (0)	ment resu x00)	ilt [USER]				l ouch p	anei oute	rmost circur)	mference adj (0x00)	ustment re	suit [USER]	

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	ADDRESS	Bit15	Bit14	Bit13	Bit12	Bit11	Bit10	Bit9	Bit8	Bit7	Bit6	Bit5	Bit4	Bit3	Bit2	Bit1	Bit0
	, IDDI ILOO	51(10	I DICT 4	IDICIO	DICTE	Ditt	IDICIO	Dita	US		Dito	Dito	15114	Lono	I DILL	Dit.1	Ditto
	2F	ACT			RED					GREEN					BLUE		
		1			11111					00000					00000		
									US	ER2			1				
RGB user preset	30	ACT			RED					GREEN					BLUE		
procet		1			00000					11111					00000		
									US	ER3							
	31	ACT			RED					GREEN					BLUE		
		1			00000					00000					11111		
									PRESET1 (H	Honda/White	e)						
	32	ACT			RED					GREEN					BLUE		
		1			11101					11101					11111		
								PI	RESET2 (Vol	vo/Light Gre	een)		1				
	33	ACT			RED					GREEN					BLUE		
		1			00110					11100					00100		
								II.	PRESET3 (Ford/Green)		1				
	34	ACT			RED					GREEN					BLUE		
		1			00100					11111					00010		
	35	ACT			RED						BLUE						
		1			00110					00110					11111		
									PRESET5	Toyota/Blue	9)						
	36	ACT			RED					GREEN					BLUE		
		1			00000					00010					11111		
505									PRESET6 (N	Nissan/Yello	w)						
RGB preset	37	ACT			RED					GREEN					BLUE		
		1			11111					11110					00000		
								P	RESET7 (Pe	ugeot/Oran	ge)						
	38	ACT			RED					GREEN					BLUE		
		1			11111					00100					00000		
									PRESET8	(Audi/Red)							
	39	ACT			RED					GREEN					BLUE		
		1			11111					00001					00000		
									Reserv	ation 1							
	ЗА	ACT			RED					GREEN					BLUE		
		0			11111					11111					11111		
									Resen	ation 2							
	3B	ACT			RED					GREEN					BLUE		
		0			11111					11111					11111		
									Resen	ation 3							
	3C	ACT			RED					GREEN					BLUE		
		0			11111					11111					11111		
									Resen	ation 4							
	3D	ACT			RED					GREEN					BLUE		
		0			11111					11111					11111		
	3E		•					С	hecksum (RC								
Adjustment of DOTCLK	3F				Don't care (0x00)	9			*4 (0x00)	Step value	when DOT	CLK is high	temperature	Step value	when DO	TCLK is low 0x00)	tempera

The value of () is different according to the adjustment result of an individual product.

*1 : Flicker adjustment

*2 : PHASE adjustment *3 : PALTINT adjustment *4 : DOTCLK adjustment

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6.6 PHASE ADJUSTMENT

[Operational specifications]

- If the monitor microcomputer is reset while the [PHTEST] terminal is set to Low, the system will proceed to [PHASE adjustment mode]. (You can get the same result by resetting, but it is not recommended as you will lose the user data.)
- The key operations under this test mode are as follows.
- (1): Main body key

Key	Operation	Remarks
MENU	Upward search of selection item	If pressed when the cursor is pointing the top item in a page, the cursor will move to the lowest item.
MAP	Downward search of selection item	If pressed when the cursor is pointing the lowest item in a page, the cursor will move to the top item.
<<	Adjustment value DOWN on the selected item	
>>	Adjustment value UP on the selected item	

(2): Remote controller key (CXC6317 SW1 : AVH, SW2 : AVH)

Key	Operation	Remarks
1	Upward search of selection item	If pressed when the cursor is pointing the lowest item in a page, the cursor will move to the top item.
+	Downward search of selection item	If pressed when the cursor is pointing the top item in a page, the cursor will move to the lowest item.
+	Adjustment value UP on the selected item	
→	Adjustment value DOWN on the selected item	

• A method to cancel [PHASE adjustment mode] is described below.

ACC OFF → ON. (BUP OFF → ON will do too.)

* The preset value is first written in the EEPROM, then read out and displayed.
Writing and reading are made in 16 bits. Depending on the setting item, the number of bit may be different.

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PHASE adjustment mode

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"*" is indicated if a value is adjusted regardless of the magnitude.

3

The specifications of the item adjusted on this page are as follows.

Adjustment item	Adjustment range	Adjustable name	Settings or written data (DEC)
VIDEO PAL demodulation	[0 to 63]	*PHASE	42
VIDEO color density	[0 to 255]	COLOR	90
VIDEO coloring (PAL)	[0 to 255]	*_PALTINT	150
OSD color total display	_		_
		"*" is indicated if a value is adjusted regardless of the magnitude.	

The actual image of the OSD display screen is as follows.

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
0	Р	Н	Α	S	Ε		М	0	D	Ε																						
1																																
2	*	Р	Н	Α	S	Е													4	2												
3		С	0	Г	0	R													9	0												
4	*	Р	Α	L	Т		Ν	Т										1	5	0										\Box		
5																								\neg						П	\Box	
6																														\Box		
7																																
8																														\Box		

- *) The above characters are displayed in black with white rim.
- *) "▶" mark indicates the selected item (cursor).
 *) There is no CS (check sum) display.

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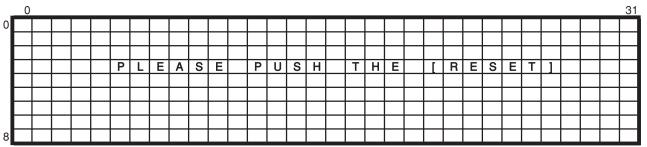
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6.7 RGB ILLUMINATION ADJUSTMENT

[Operational specifications]

• Method1

If the monitor microcomputer is reset by double pressing of the SOURCE key + the [|<<] key, the following screen will be displayed on the OSD.



At this time, if the keys are pressed in the order of SOURCE $\rightarrow >> \mid \rightarrow MENU \rightarrow \mid <<$, the system will proceed to the [RGB illumination test mode].

• Method2

If the monitor microcomputer is reset with the [ILMTEST] terminal set to Low, the system will proceed to the [RGB illumination test mode].

(You can get the same result by resetting, but it is not recommended as you will lose the user data.)

*) When the succession is made by the terminal, the OSD display screen below will not be displayed.

• The key operations under this test mode are as follows.

(1): Main body key

Key	Operation	Remarks						
SOURCE	Page turning	The screen succeeds in the order of [RGB preset 1 setting mode] → [RGB preset 2 setting mode] →						
SOUNCE	Page turning	RGB preset 11 setting mode] → [RGB preset 12 setting mode] → [RGB preset 1 setting mode].						
MENU	Upward search of selection item	If pressed when the cursor is pointing the top item in a page, the cursor will move to the lowest item.						
MAP	Downward search of selection item	If pressed when the cursor is pointing the lowest item in a page, the cursor will move to the top item.						
<<	Adjustment value DOWN on the selected item	In the case of ON/OFF setting item, set to OFF.						
>>	Adjustment value UP on the selected item	In the case of ON/OFF setting item, set to ON.						

(2): Remote controller key (CXC6317 SW1: AVH, SW2: AVH)

Key	Operation	Remarks
MENU		The screen succeeds in the order of [RGB preset 1 setting mode] → [RGB preset 2 setting mode] → [RGB preset 11 setting mode] → [RGB preset 12 setting mode].
†	Upward search of selection item	If pressed when the cursor is pointing the lowest item in a page, the cursor will move to the top item.
\downarrow	Downward search of selection item	If pressed when the cursor is pointing the top item in a page, the cursor will move to the lowest item.
←	Adjustment value UP on the selected item	In the case of ON/OFF setting item, set to OFF.
\rightarrow	Adjustment value DOWN on the selected item	In the case of ON/OFF setting item, set to ON.

A method to cancel [RGB illumination test mode] is described below.
 ACC OFF → ON. (BUP OFF → ON will do too.)

*) The preset value is first written in the EEPROM, then read out and displayed.

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RGB illumination test mode

The specifications of the items adjustable on each preset page are as follows.

Adjustment item	Adjustment range		Settings or written data (DEC)
Setting of USED/UNUSED	ON/OFF	ACTIVITY	ON
RED adjustment value	[0 to 31]	RED	29
GREEN adjustment value	[0 to 31]	GREEN	29
BLUE adjustment value	[0 to 31]	BLUE	31

The actual image of the OSD display screen is as follows. (Preset 1 display screen is shown as an example.)

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
0	R	G	В		Τ	L	М		М	0	D	Ε																				
1																																
2		Р	R	Е	S	Ε	Т		0	1																						
3																																
4					Α	С	Т		٧		Т	Υ						0	Ν													
5					R	Ε	D											2	9													
6					G	R	Е	Е	Ν									2	9													
7					В	L	U	Е										3	1													
8																																

- *) The above characters are displayed in black with white rim.
- *) ">" mark indicates the selected item (cursor).
- *) The above display screen is common to all preset screens except that the preset number changes.

Note 1: When changed, writing into the E2PROM is done for each preset unit.

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PRESET Number	ACTIVITY	RED	GREEN	BLUE	Remarks
PRESET_01	ON	29	29	31	White
PRESET_02	ON	6	28	4	Light Green
PRESET_03	ON	4	31	2	Green
PRESET_04	ON	6	6	31	Violet
PRESET_05	ON	0	2	31	Blue
PRESET_06	ON	31	30	0	Yellow
PRESET_07	ON	31	4	0	Orange
PRESET_08	ON	31	1	0	Red
PRESET_09	OFF	31	31	31	N/A
PRESET_10	OFF	31	31	31	N/A
PRESET_11	OFF	31	31	31	N/A
PRESET_12	OFF	31	31	31	N/A

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[Operational specifications]

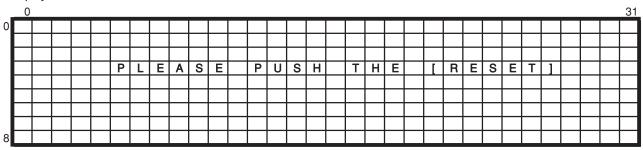
• After replacing the LCD Module or Monitor Unit.

"1. TP EFFECTIVE RANGE" and "4. LINE TOUCH PANEL" must be performed.

If "4. LINE TOUCH PANEL" is failed, "2. CALIBRATION" must be performed.

• Method1

If the monitor microcomputer is reset by double pressing of the SOURCE key + the [|<<] key, the following screen will be displayed on the OSD.



At this time, if the keys are pressed in the order of MAP → SOURCE →>>| → MENU, the system will proceed to the [touch panel test mode].

• Method2

If the monitor microcomputer is reset with the [TPTEST] terminal set to Low, the system will proceed to the [touch panel test mode]. (You can get the same result by resetting, but it is not recommended as you will lose the user data.)

*) When the succession is made by the terminal, the OSD display screen below will not be displayed.

· Key Operation

Main body key	Remote controller key	Operation
SOURCE	MENU	Select item
MENU	†	Upward the cursor
MAP	+	Downward the cursor

*) Remote controller: CXC6317 (SW1:AVH, SW2: AVH)

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MAIN MENU

Screen configuration

Α

Select each item of the touch panel test mode.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 TOUCH-PANEL TEST 1 1 . T P EFFECTIVE RANGE 2 3 2. CALIBRATION 3 . T O U C H TEST 4 4. LINE TOUCH 5 5 . D A T A INITIALIZE 6 7 [E N T E R] MENU SELECTION U P DOWN1 MOVECURSOR 8 A C C O F F] E N D O F 9 TEST

- Conditions for the adjusted mark (*) to light on.
- 1. TP EFFECTIVE RANGE
- →When the outermost circumference adjustment has been completed correctly.
- 2. CALIBRATION
- →When the calibration has been completed correctly.
- →When the line touch panel test has been completed correctly.
- *) If one of the above conditions is met, the light will turn on.
- 4. LINE TOUCH TEST
- →When the line touch panel test has been completed correctly.
- Conditions for the adjusted mark (*) to go out.
 - 1. TP EFFECTIVE RANGE
 - →If the outermost circumference adjustment has never been made.
 - →When the EEPROM initialization is made.
 - →When the outermost circumference adjustment value initialization is made in the initialization menu.
 - →When the outermost circumference adjustment has failed.
 - 2. CALIBRATION
 - →If the calibration adjustment has never been conducted.
 - →When the EEPROM initialization is made.
 - →When the calibration adjustment value initialization is made in the initialization menu.
 - →When the calibration adjustment has failed.
 - →When the line touch panel verification has failed.
 - 4. LINE TOUCH TEST
 - →If the line touch panel verification has never been conducted.
 - →When the EEPROM initialization is made.
 - →When the calibration adjustment value initialization is made in the initialization menu.
 - →When the line touch panel verification has failed.

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TP EFFECTIVE RANGE

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Screen configuration

Trace the white line displayed on the each four corner of touch panel with a soft stick(ex. wooden toothpick), and the setting values are saved in the EEPROM.

```
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32
            ΤP
                EFFECTIVE RANGE
1
                 [BEFORE. AFTER]
2
             MIN-X:[999.999]
3
             MAX-X:[999.99]
4
             MIN-Y:[999.999]
5
             MAX-Y:[999.999]
6
     [CAUTION]
7
       PLEASE TOUCH AROUND PANEL
8
9
```

Operational specifications

Touch on the touch panel, and check the outermost circumference.

OK (NG) is displayed in the screen center by the SOURCE key, and 2 seconds later, the screen will return to the top MENU.

Details of the process

After pressing the SOURCE key, the setting values are judged.

If the value is within the allowable range, the upper limit and the lower limit of the setting value and the normal ending information are saved in the EEPROM and OK is displayed. After 2 seconds, the screen will return to the top MENU.

If the setting value is outside of the range, the upper limit and the lower limit values are not saved in the EEPROM, NG ending information is saved and NG is displayed. After 2 seconds, the screen will return to the top MENU. The initial values and the setting value allowable range are as shown below.

[The list of AFTER initial value]

Coordinate	Minimum value	Maximum value
X	126	161
Υ	126	161

[The list of initial setting value at the time of EEPROM reset]

Coordinate	Minimum value	Maximum value
X	42	247
Υ	51	238

[The list of AFTER setting allowable range]

-	•	• .
Coordinate	Minimum value	Maximum value
Χ	0 to 125	162 to 255
Υ	0 to 125	162 to 255

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CALIBRATION

Outline

Press "+" cursors on the screen one by one for calibration, and the setting values are saved in the EEPROM.

	1	2	3	4	5	6	7	8	9	10 11	12	13	14 1	<u>516</u>	17 18	3 1 <u>9</u>	202	212	2 23	242	5 26	27	28 2	9 30	31	32
1																										
2					+	13	3				+	12				+	5				+	4				
3																										
4					+	14	4				+	11				+	6				+	3				
5																										
6					+	15	5				+	10				+	7				+	2				
7																										
8					+	16	6		+	17	+	9				+	8				+	1				
9																										

*) The numbers above indicate the order of the cursors being displayed.

Operational specifications

Press the cursors displayed at 16 locations on the screen one by one for calibration, and the process will be completed by pressing the last cursor (total 17 locations).

After the 17th location has been displayed, "FINISHED" will be displayed in the center of the screen. After 2 seconds, the screen will return to the top MENU.

The cursor is displayed only one at a time, and the next cursor will be displayed when the previous one has been pressed correctly.

If the SOURCE key is pressed before pressing 17 locations, NG will be displayed, and after 2 seconds, the screen will return to the top MENU.

Details of the process

When the 17th location is pressed, the setting values and normal ending information are saved in the EEPROM, and "FINISHED" will be displayed.

If the SOURCE key is pressed during the process and the inspection is finished, the EEPROM will save the NG ending information, and "NG" is displayed.

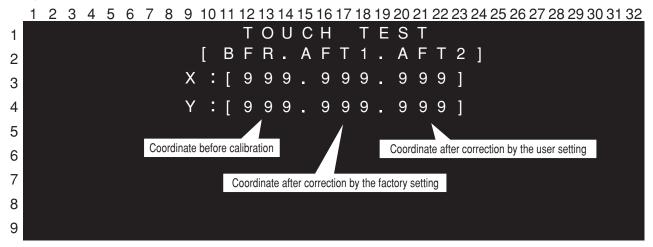
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TOUCH TEST

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Screen configuration

The coordinate before correction and after correction at the time of the touch panel pressing are displayed to verify the operation.



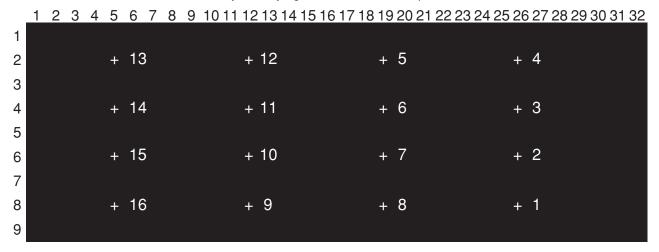
Operational specifications

Touch the touch panel to display the coordinate. Verify the coordinate before correction and the coordinate after correction by the factory setting. Return to the top MENU by pressing the SOURCE key.

LINE TOUCH TEST

Outline

Press the "+" cursors on the screen one by one to judge OK/NG of the touch panel.



*) The above numbers indicate the order that the cursors are displayed.

Operational specifications

Press the cursors displayed at 16 locations on the screen one by one for inspection.

After the 16th location has been displayed, "OK" will be displayed in the center of the screen. After 2 seconds, the screen will return to the top MENU.

The cursor is displayed only one at a time, and the next cursor will be displayed when the previous one has been pressed correctly.

If not pressed correctly (if not within the OK range), "OUTSIDE OF THE RANGE" will be displayed.

If the SOURCE key is pressed before pressing 16 locations, NG will be displayed, and after 2 seconds, the screen will return to the top MENU.

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TP DATA INITIALIZE

Screen configuration

Outermost circumference and 16 point calibration data are returned to the initial value.

If already set, "*" will be displayed in front of each item. It goes away upon clearing of the setting. 2 3 4 5 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 6 DATA NITIALIZE 1 * RANGE I N I T2 CALIB I N I T* 3 USER RANGE INIT 4 USER CALIB INIT5 RETURN T O $M \in N \cup$ 6 ENTERI USE FUNCTION 7 [UP MOVEDOWN 1 CURSOR 8

The functions by the items selected are as follows.

RANGE INIT The factory preset outermost circumference setting is initialized.

CALIB INIT The factory preset calibration is initialized.

The user preset outermost circumference setting is initialized. **USER RANGE INIT**

By this action, the factory preset outermost circumference setting is used.

USER CALIB INIT The user preset calibration setting is initialized.

By this action, the factory preset outermost circumference setting is used.

• Conditions for the adjusted mark (*) to light on.

RANGE INIT

→The same condition as the item for outermost circumference adjustment in the top MENU.

CALIB INIT

→The same condition as the item for line touch panel verification in the top MENU.

USER RANGE INIT

→In case the user outermost circumference adjustment made a normal ending.

USER CALIB INIT

- →In case the user calibration made a normal ending.
- Conditions for the adjusted mark (*) to go out.

RANGE INIT

→The same condition as the item for outermost circumference adjustment in the top MENU.

CALIB INIT

→The same condition as the item for line touch panel verification in the top MENU.

USER RANGE INIT

- →In case the user outermost circumference adjustment has never been conducted.
- →When the EEPROM initialization is made.
- →In case the user outermost circumference adjustment value initialization was conducted in the initialization menu.
- →In case the outermost circumference adjustment made a normal ending.
- →In case the calibration adjustment made a normal ending.

USER CALIB INIT

- →In case the user calibration adjustment has never been conducted.
- →When the EEPROM initialization is made.
- →In case the user calibration adjustment value initialization was conducted in the initialization menu.
- →In case the outermost circumference adjustment made a normal ending.
- →In case the calibration adjustment made a normal ending.

Operational specifications

Select each item by the MENU key and the MAP key.

The function of the item selected by the SOURCE key is executed.

When "RETURN TO MENU" is executed, the screen will return to the top MENU.

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6.9 NAVIGATION TEST MODE

1. Key operation

Use the remote controller for operation. (Part No.: CXC6317 (Operation mode switch: SW1: AVH, SW2: DVD))

Basic operation method in the remote controller.

• [†] (The cursor is moved up) [2] key	• [OK], [ENTER] [5] key
• [↓] (The cursor is moved down) [8] key	• [BACK] [C] key
• [←] (The cursor is moved left) [4] key	• [NAVI] [7] key
• [→] (The cursor is moved right) [6] key	• [MENU] [0] key

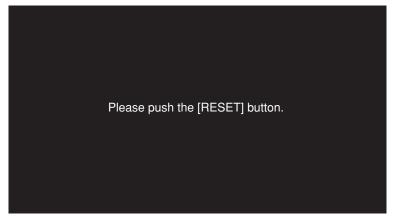
2. How to start the test mode

- 1. When +Battery and ACC are ON, push RESET and EJECT buttons simultaneously.
- 2. Release RESET button only.
- 3. When "password entry screen" is displayed, release EJECT button.
- 4. Enter the password.
- 5. When the password has been entered, press [ENTER] key.
- 6. If the correct password has been entered, the test mode menu will be displayed.
- * The password entry screen, as the one used in the previous model, is no longer displayed.
- << Password for the service >>

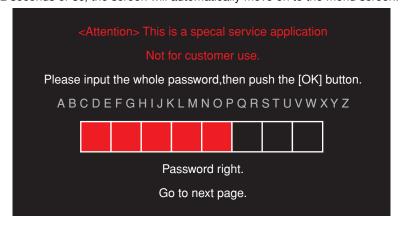
$$[8] + [1] + [8] + [3] + [7] + [2] + [0] + [8].$$

If 8 digits or more are entered and [ENTER] key is pressed, it will be treated as a password error.

· Password entry screen



• Password OK: After 2 seconds or so, the screen will automatically move on to the menu screen.



• Password NG: Nothing will be displayed, and reboot action will be taken.

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TESTMODE MENU [SERVICE_MENU(THCHNICAL)]

- Version check
 Error log
 Format FLASH drive
 Erase APL-file in FLASH
 Clear backup memory
 GPS backup data clear
 GYRO SENSOR INFO data clear
 Port status information

==> next page SYSTEM Ver. : [BOOT] 0.14 [OS] 0.14

No.	Inspection item	Outline of inspection	Content if inspection
1	Version check	Version information check	Display of various version information.
			(system software, GPS, system
			microprocessor, microprocessor for
			mechanism control, microprocessor for timer).
			The screen will return to "menu" by BACK key.
2	ERROR log	Error history entry	History of system software errors stored in SRAM is displayed.
			Maximum 8 events from the error last occurred
			can be displayed.
			The screen will return to "menu" by BACK key.
3	Format FLASH drive	FLASH format	FLASH domain used by the system soft is initialized.
			When the job is done, the screen will return
			to "menu".
4	Erase APL-file in	Application file inside	Application file inside FLASH is clear.
	FLASH	FLASH is clear	*(Except voice data and SRAM backup
			variable)
			When the job is done, the screen will return
			to "menu".
5	Clear backup memory	Back up variables	SRAM domain used by the system software
		initialization	is initialized.
			When the job is done, reboot action will be
			taken.
6	GPS backup data clear	GPS back up data clear	SRAM domain used by GPS is initialized.
			When the job is done, the screen will return
-	OVDO OFNICOD INTO		to "menu".
7	GYRO SENSOR INFO	Learned data inside gyro	Learned data inside gyro sensor is cleared.
	data clear	sensor is clear	When the job is done, the screen will return
8	Port status information	Port status display	to "menu". Port status is displayed. (reverse, parking,
0	Fort status information	For i Status display	pulse, SDRAM capacity.)
			pulse, Sunaivi capacity.)

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SYSTEM Ver. : [BOOT] 0.14 [OS] 0.14

No.	Inspection item	Outline of inspection	Content if inspection	n			
1	Change to display	Switching of error	Display setting for e		ebugaina)		
	error	information display	Message/Information				
2	Start within debug	Switching of debug shell	Setting for debug sh				
	shell	start	Off (no initial start)/	On (initial start) s	electable.		
					ram write is changed.		
				System program	Write when the version No. in the disc is higher.		
			Disc	System data	Write when the version No. in the disc is higher.		
			(default)	GPS program	Write when the version No. in the disc is higher.		
3	Program loading	Switching of program loading		Application program	Write when the version information is different from the one in disc.		
	Ü	G		System	Write when the version		
				program	No. in disc or card is		
					higher.		
				System data	Write when the version		
					No. in disc or card is		
			Disc & Card		higher.		
			(for debug)	GPS program	Write when the version		
					No. in disc or card is		
					higher.		
				Application	Write when the version		
				program	No. in disc or card is		
4	GPS	CDC accomment aveter	CDC accomment of	votom oan he was	higher.		
4	assessment	GPS assessment system start	to "menu" by BACK		ed. The system will return		
5	File maintenance	File maintenance function			de. Formatting of SRAM		
၂ ၁	i ne mamenance	THE INMINITERIALICE TURICUM	drive and PC card (
					o PC card. Data retrieved		
6	Program forced	Program forced write	from SRAM is copied to SRAM from PC card. rrite Rewriting of SYS (system), GPS (GPS) and APL (applic				
	write	1 Togram Toroed Write	software are done b		o, and Ai L (application)		
	WIIIO				urn to "menu" by BACK key.		

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TESTMODE MENU [SERVICE_MENU(THCHNICAL)]

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- 1. SRAM / SDRAM test 2. SENSOR test

- 3. RGB test 4. MS5 check
- 5. Region code

==> next page <== back page SYSTEM Ver. : [BOOT] 0.14 [OS] 0.14

No.	Inspection item	Outline of inspection	Content if inspection
1	1 SRAM/SDRAM test Memory inspection		SRAM : Device inspection and bus inspection are performed against all SRAM domains.
			Data will be protected. (applicable to both 32M and 64M)
			SDRAM : Device inspection and bus inspection are performed against all SDRAM domains.
			Data will be protected for both BIOS domain and USER domain.
			The function for SDRAM all domain inspection will activate by
			the built-in instruction RAM.
2	SENSOR test	Sensor inspection	G sensor, gyro, power supply voltage and installation condition are
			displayed.
			The system will return to "menu" by BACK key.
3	RGB test	Image RGB inspection	RGB inspection
			(Upper half, 8 colors. Black/blue/red/pink/green/light blue/yellow/white
			display. Lower half, 3 colors. Red/green/blue.) → red (FULL)
			→ green (FULL) → blue (FULL)
			Switching can be made by $[\leftarrow]$ and $[\rightarrow]$ keys.
			The system will return to "menu" by BACK key.
4	MS5 check	MS5 check	MS5 mechanism test mode inspection.
5	Region code	Region code display	Region code display.

4. How to select test mode menu

Select a desired menu by [\uparrow] and [\downarrow] keys, and execute by pressing [ENTER] key. Pages can be changed by $[\leftarrow]$ and $[\rightarrow]$ keys.

5. Version information

Version No. for BOOT section = X.XX System software does not exist in SDRAM. Version No. for BOOT section = X.XX Version No. for SDRAM = Y.YY

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П	Item	Content	Information display	File name
1	System boot version	The version information of the system software boot section (FLASH) is displayed.	[**.**]→The version information of the system software boot section.	EW070BOT.PRG UC070BOT.PRG
2	System OS version	The version information of the system software OS section (FLASH) is displayed.	[**.**]→The version information of the system software OS section. [NG]→There is no system program.	EW070SYS.PRG UC070SYS.PRG
3	GPS program version	The version information of the GPS program (DRAGON) is displayed.	[**.**]→The version information of the GPS program. [NG]→There is no GPS program.	EW070GPS.PRG UC070GPS.PRG
4	Application version	The version information of the application program (FLASH) is displayed.	[**.**]→The version information of the application program. [NG]→There is no application program.	EU070APL.PRG
5	Language data version	The version information of the data by language (FLASH) is displayed.	[**.**]→The version information of the data by language. [NG]→There is no data by language.	EW070DAT.xxx (xxx: Extension is determined for each language. GBR, DEU, FRA, ITA, NLD, ESP, SWE, DNK.) UC070DAT.yyy (yyy: Extension is determined for each language. USA, FRA, ESP.)
6	Sound data version	The version information of the sound data by language (FLASH) is displayed.	[**.**]→The version information of the sound data by language. [NG]→There is no sound data by language.	EW070SDF.xxx (xxx: Extension is determined for each language. GBR, DEU, FRA, ITA, NLD, ESP, SWE, DNK BEL.) UC070SDF.yyy (yyy: Extension is determined for each language. USA, FRA, ESP.)
7	Syscom version	The version information of the system microcomputer is displayed.	[**.**]→The version information of the system microcomputer. [NG]→The communication with the system microcomputer is not established.	
8	Syscom romc version	The ROM Correction version information of the system microcomputer is displayed.	[**.**]→The ROM Correction version information of the system microcomputer. []→There is no ROM Correction attached.	
9	Drive version	The core version information of the mechanism microcomputer is displayed.	[**.**]→The core version information of the mechanism microcomputer. [NG]→The communication with the mechanism microcomputer is not established. []→The region of the mechanism is different.	
10	Monitor ucom version	The version information of the monitor microcomputer is displayed.	[**.**]→ The version information of the monitor microcomputer. [NG]→The communication with the monitor microcomputer is not established.	
11	Monitor ucom romc version	The ROM Correction version information of the monitor microcomputer is displayed.	[**.**]→ The ROM Correction version information of the monitor microcomputer. []→There is no ROM Correction attached.	
12	System program	The system software file is displayed.	[EW070SYS.PRG]→System software file for EW. [UC070SYS.PRG]→System software file for UC. [NG]→There is no system software file.	
13	Application language	The data file by language is displayed.	[EW070DAT.xxx]→ Data file by language for EW. [UC070DAT.yyy]→ Data file by language for UC. [NG]→ There is no data by language.	EW070DAT.xxx (xxx: Extension is determined for each language. GBR, DEU, FRA, ITA, NLD, ESP, SWE, DNK.) UC070DAT.yyy (yyy: Extension is determined for each language. USA, FRA, ESP.)
14	Sound data language	The sound data file by language is displayed	[EW070SDF.xxx]→ Sound data file by language for EW. [UC070SDF.yyy]→ Sound data file by language for UC. [NG]→There is no sound data by language.	EW070SDF.xxx (xxx: Extension is determined for each language. GBR, DEU, FRA, ITA, NLD, ESP, SWE, DNK. BEL) UC070SDF.yyy (yyy: Extension is determined for each language. USA, FRA, ESP.)

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Error Information

1. Error Information

Descriptions of error information, for errors arising from system software problems, will be provided in this section.

Up to eight sets of information, related to the system software's errors, will be stored in the SRAM.

By executing hi_sysdwn() the line number (on which the error occurred), the error code and detailed information of the error, will be stored in the error log.

Hi_sysdwn() will be executed in the following two circumstances:

- 1. hi_sysdwn() will be intentionally stored if fatal errors occur with each BIOS.
- 2. If multiple exceptions, fatal exceptions, illegal command codes and trap command errors occur.
- 3. Reset activated by the Watch Dog Timer function. This occurs when the program ceases to function properly.

2. Error Log's Entry Function

Up to twenty-four sets of information, related to errors starting with the latest error, will be displayed by the error log entry function.

There are two types of error log displays.

The display will vary when the argument provided to hi_sysdwn(), depending on whether detailed information (such as program name, version number, creation date, creation time and creator name) exists or not.

1. When detailed information exists:

```
** ERROR INFORMATION **

ERCD = 00000028(40)

FILE = ini_usf.c

LINE = 510(000001fa)

VERS = 1.1.1.1

DATE = 2003/08/08

TIME = 06:07:26

AUTH = daisuke

ERROR-TIME ffff-ff-ff ff:ff:ff

No.4 ← ERROR No.3 → No.2

Stop when push [DEST] button.
```

ERCD	Error Code (If the FILE column is "int_wdt.c", ID of the task in operation is displayed when
	the last 4 digits are reset)
FILE	Name of the program where the error occurred (In case of "int_wdt.c", it shows that reset
	is activated by the Watch Dog Timer. In this case, ERCD shows other information than
	error information).
LINE	Program line number where the error occurred
VERS	Version number of the program where the error occurred
DATE	Date of creation of the program where the error occurred
TIME	Time of creation of the program where the error occurred
AUTH	Creator of the program where the error occurred
ERROR -	Time of error occurrence
TIME	

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```
** ERROR INFORMATION **

type = 000000b7(183)
ercd = ffffc002(-16382)
inf = ffb7ac18(-4740072)

ERROR-TIME ffff-ff ff:ff:ff
No.2 ← ERROR No.1 → No.24
Stop when push [DEST] button.
```

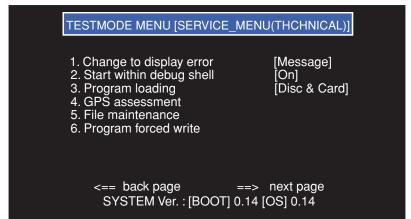
type	Error occurring program line number.
ercd	Error code.
inf	System down information.
ERROR-TIME	Error occurrence date and time.

3. Error Information Switch

5

The product (with default settings) will display error messages to the user if an error occurs. Error information can be displayed if an error occurs by switching the error information in the test mode. In either case, the error log entry display will be the same.

- 1) Error message display (default settings):
- Setting in the test mode:



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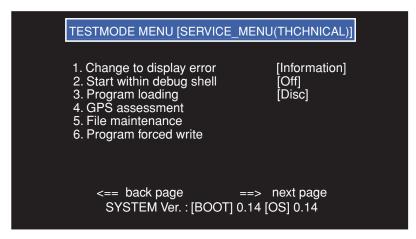
• Display when an error occurs:

An error has occured.
Please turn power off and on again.

Une erreur a été décelée.
Veuillez éteindre puis rallumer le système.

Fehler.
Bitte System aus- und wieder einschalten.

- 2) Error information display
- Settings in the test mode:



Display when an error occurs:

• If error information exists:

```
** ERROR INFORMATION **

ERCD = ffffffff(-1)

FILE = tsk_ini.c

LINE = 152(00000098)

VERS = 1.11

DATE = 2003/04/03

TIME = 04:59:10

AUTH = jin

ERROR-TIME ffff-ff ff:ff:ff
```

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• If error information does not exist:

** ERROR INFORMATION **

type = 00000109(265)

ercd = 00000001(1)

inf = ffe83230(-1560016)

ERROR-TIME ffff-ff-ff ff:ff:ff

4. Watch dog timer

5

This product has a built-in mechanism to monitor at a certain interval whether the software is correctly operating or not.

Once this mechanism becomes inoperable, "reset request" will be sent to the power supply microprocessor when a preset time (approximately 4 seconds) has elapsed.

In order to record operational situation of such an occasion, a special code which is not an error code is recorded in the ERCD.

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Port status information

Reverse Low Parking Low Pulse 0

[BACK] go to testmode menu.
[NAVI] information renewal.

3

Display	Content of inspection			
Reverse	Reverse port status			
Parking	Parking port status			
Pulse	Pulse status			

The pulse number of vehicle speed is indicated at 1/5 value of input frequency for vehicle speed signal. For example, when vehicle speed signal is 100Hz, the value becomes 20.

How to operate.

[BACK] : Return to the test mode menu. [NAVI] : Update of the port status.

GPS assessment

FLASH	Display of DRAGON FLASH ROM version information.			
GPS	Display of GPS version information.			
SENSOR	Display of sensor version information.			

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G-SENSOR	Display of Cooper						
	Display of G sensor voltage						
GYRO	Display of gyro voltage						
POWER	Display of power supply voltage						
FIT UP	Display of installatio						
	Display	Status					
	• NG	Installation position is NG.					
	• OK	Installation position is OK. (3rd best)					
	OK (Better)	Installation position is OK. (2nd best)					
	OK (Best)	Installation position is OK. (B	est)				
DISTANCE	Display of distance of	alculation status.					
	Display	Status					
	• INITIALIZE	Sensor initial learning is under way.					
	• GPS	GPS distance. (Model without G sensor.					
		No pulse connection.)					
	• G-SENSOR	G sensor distance. (simple hybrid.)					
	• ND-PG1	ND-PG1 distance.					
	SPEED PULSE	Vehicle speed pulse distance.					
LOW SPEED	Display of minimum	output speed of a low speed I					
	(Depends on DISTANCE status.)						
	DISTANCE status	SPEED PULSE status	Display				
		Low vehicle speed pulse	CHECK				
		learning is under way.					
	SPEED PULSE	Low vehicle speed pulse is OK					
		OK.					
		Low vehicle speed is NG.	NG xx[km/h]				
	Others						

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■ MS5 check (DVD Mechanism Module test mode)

*) Caution

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During the servo test, the protection against runaway of the mechanism will not be effective. If the runaway state is left as it is, it may cause a critical damage. When a strange sound is heard during test, turn the power OFF immediately.

The keys used

1

[OK] decision key [BACK] return key

[Direction key] up, down, left and right of the joystick

[MS5 X-3212 Test] Initial screen of the test mode

```
[ MS5 X-3212 Test ]
FirmWare Revision.
Mecha Ver 1.0.09.01

[1] FE TestMode
[2] EDC-1 mode
[3] EDC-2 mode
[4] LD Energizing time mode

Press [0K] to make a selection
Press [BACK] to X-3212 Test top
```

Mecha Ver: Software version of the MS5 mechanism.

[1] Start of FE test

[2] Start of EDC-1 test

[3] Start of EDC-2 test

[4] Start of LD energizing time mode

[OK] Execute

[BACK] Exit from X-3212 test mode

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FE test operational specifications

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*) Caution

During the servo test, the protection against runaway of the mechanism will not be effective. If the runaway state is left as it is, it may cause a critical damage. When a strange sound is heard during test, turn the power OFF immediately.

When E is displayed at the head digit of the data, operation other than [BACK] is not possible.

1. [X-3212 Servo Test]: The screen in the power off state.

```
[ X-3212 NOTHING Servo. Test(0-0) ]
 Status: Power Off Data: TEST
 [1] Power On
    Disc type : DVD 1-Layer
 [3] Disc type : DVD 2-Layer
    Disc type : CD
 [5] Disc type : CD-RW
 [6] Disc Eject
Press[OK]to make a selection
Press[BACK] return to former
```

- NOTHING is changed by selecting [2] to [5] below.
- Each display is changed to the compatible media type.
- · Status is unchanged at Power Off.
- The value of the data changes according to the executed command. Note) [1] cannot be selected for execution unless one of the commands among [2] to [5] is executed once.
- Succeeds to Power On state. [1]
- [2] Specify DVD layer 1
- Specify DVD layer 2 [3]
- [4] Specify CD
- Specify CD-RW [5]
- [6] **Eject Disc**
- [OK] Execute

[BACK] Exit from X-3212 test mode

2. [X-3121 Servo Test(1-0)]: The screen in the power on state.

```
Status: Power On Data: 02000000
 [1] Focus Close [2] Focus Search Start [3] CRG + Stop
 [4] CRG - Stop [5] LD-OFF->LD-ON
                                         [6] CRG_HOME
      FE Offset:
                    TE Offset
      AS Offset:
                    ENV Offset:
      TG Offset:
                    DBAL
      VIN_01
                    VIN_02
      VIN_03
                    VIN_04
      VIN_05
                    VIN_06
      VIN_07
                    VIN_08
      VIN_09
                    VIN_10
Press[OK] to make a selection, Press[BACK] return to former
```

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Note) If no action is taken for approximately 10 seconds after LD-ON, it will be switched to LD-OFF automatically. If F close is selected in LD-OFF state, it will become an error.

Because it will be in conflict with the safety regulation if LD_OFF is not selected within 10 seconds during focus search (S character measurement mode), too, it will switch to LD-OFF after 9 seconds even if the focus search is conducted after LD-ON.

If F close is to be selected after focus search (S character measurement mode), select Power_OFF once then power on again before F close.

Operation cannot be made until completion of displaying the value from FE Offset to VIN 10.

[1] cannot be executed unless [5] command is executed once.

- [1] Succeed to Focus Close 1 state.
- [2] Execution and stop of Focus Search
- [3] Execution and stop of CRG+
- [4] Execution and stop of CRG-
- [5] On/Off of LD
- [6] Execution of CRG HOME
- [OK] Execution/stop
- [BACK] 1, [X-3212 Servo Test]: Return to Power Off state screen.
- 3. [x-3212 Servo Test (2-0)]: Focus Close 1 state screen

```
[ X-3212 CD Servo. Test(2-0) ]
Status: Focus Closed Data: 11000000
[1] T.Bal
[2] Focus Jump
[3] CRG + Stop [4] CRG - Stop

FE MAX : FE MIN :
    AS MAX : ENV MAX :
    FE Normal :
    TE MAX : TE MIN :

Press[OK] to make a selection
Press[BACK] return to former
```

Note) Value of the data will change upon execution of the command.

Operation cannot be made until completion of displaying the value from FE MAX to TE MIN.

- [1] Succeed to Focus Close 2 state.
- [2] Execution of Focus Jump
- [3] Execution and stop of CRG+
- [4] Execution and stop of CRG-
- [OK] Execution/stop
- [BACK] 1, [X-3212 Servo Test]: Return to Power Off state screen.

```
[ X-3212 CD Servo. Test(3-0) ]
Status: Focus Closed2 Data: 20000000
[1] Tracking Close
[2] CRG + Stop [3] CRG - Stop
[4] RF level

T.Bal( Layer 0 ) :
T.Bal( Layer 1 ) :
TE Normal( Layer 0 ) :
TE Normal( Layer 1 ) :
OFF TRACK :

Press[OK] to make a selection
Press[BACK] return to former
```

Note) Value of the data will change upon execution of the command.

Operation cannot be made until completion of displaying the value from T. Bal to OFF TRACK.

- [1] Succeed to Tracking Close state.
- [2] Execution and stop of CRG+
- [3] Execution and stop of CRG-
- [4] Succeed to RF Level display state.
- [OK] Execution/stop

[BACK] 1, [X-3212 Servo Test]: Return to Power Off state screen.

5. [X-3212 Servo Test (4-0)]: Tracking Close state screen

```
Status: Tracking Closed Data: 30000000
 [1] Error Rate : ------
 [2] Read Speed: fix to x4 CLV
 [3] Track Jump + [4] Track Jump - [5] Focus Jump
                  [7] Tracking Open( to Focus Close )
 [6] ID Search
 F.Bal(0):
                 F.Gain( 0 )
 F.Bal(1):
                 F. Gain( 1 )
 T.Gain( 0 ) :
                 AS Normal(0)
 T. Gain(1):
                 AS Normal(1)
Press[OK] to make a selection
Press[BACK] return to former
```

Note) Value of the data will change upon execution of the command.

Operation cannot be made until completion of displaying the value from F. Bal(0) to AS Normal(1).

- [1] Error Rate display (Operation cannot be made for approximately 10 seconds after execution.)
- [2] Read speed change (Fixed speed for CD.)
- [3] Go to Track Jump + screen.
- [4] Go to Track Jump screen.
- [5] Execution of Focus Jump
- [6] Go to ID Search screen.
- [7] 3, [x-3212 Servo Test (2-0):] Succeed to Focus Close 1 state screen
- [OK] Execution/stop

[BACK] 1, [X-3212 Servo Test]: Return to Power Off state screen.

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6. [X-3212 Servo Test (4-3)]: Track Jump +/- screen
```

```
[ X-3212 DVD 2-Layer Servo. Test(4-3) ]
Status: Tracking Closed Data: 41000000
[1] Track appointment
[2] Start Track Jump +

Please execute [Start Track Jump] command.
to return to a front screen.

Press [OK] to make a selection
```

Note) Value of the data will change upon execution of the command.

```
[1] The value of the data is switched to cyclic for each execution.
For CD: 1→ 4 → 10 → 11 → 32 → 1→ ... [track]
For DVD: 1→ 4 → 10 → 11 → 32 → 64 → 100 → 1 → ... [track]
[2] Execution of Track Jump +/-.
[OK] Execution
[BACK] 5, [X-3212 Servo Test (4-0): Return to Tracking Close state screen (Selectable only after execution of Track Jump.)
```

7. [X-3212 Servo Test (4-5)]: ID Search screen

```
[ X-3212 CD Servo. Test(4-6) ]
Status: Tracking Closed Data: 4A000000
[1] ID appointment:
[2] cursor right
[3] cursor left
[4] cursor up
[5] cursor down
[6] Start ID Search

Please execute [Start ID Search] command.
to return to a front screen.

Press [OK] to make a selection
```

Note) Value of the data will change upon execution of the command.

```
[1] Display of ID
[2] Blue digit of the Data is shifted to the right by one digit.
[3] Blue digit of the Data is shifted to the left by one digit.

(Shifting can be made only up to the 3rd digit from the left.)
[4] The number of the blue digit of the data is increased by 1.
[5] The number of the blue digit of the data is decreased by 1.
[6] Start of ID Search
[OK] Execution
[BACK] 5, [X-3212 Servo Test (4-0): Return to Tracking Close state screen (Selectable only after execution of ID Search.)
```

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Note) Value of the data will change upon execution of the command.

Operation cannot be made until completion of displaying the value from F. Bal (0) to AS Normal (1).

- [1] Display of RF level
- [2] Display of Error rate
- [3] Succeed to Focus Close 1 state screen
- [OK] Execution/stop

[BACK] 5, [X-3212 Servo Test (4-0)]: Return to Tracking Close state screen.

EDC test operational specifications

Note) The operational method is common to both EDC-1 and EDC-2 tests.

1. [X-3212 EDC-1/2 TEST]: Initial screen

```
[ X-3212 DVD Test ] EDC-1

Layer: 0
ID : TEST

[1] Select Layer 0
[2] Select Layer 1
[3] Disc Eject

Press [OK] to make a selection
Press [BACK] to DVD Test top( EDC end )
```

Note) Value of the ID will change upon execution of the command.

- [1] Go to setting screen of 2, [X-3212 EDC-1/2 Test Layer 0]
- [2] Go to setting screen of 3, [X-3212 EDC-1/2 Test Layer 1]
- [3] Ejection of the disc
- [OK] Execution

[BACK] Exit from MS5 check.

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2 3 4
```

2. [X-3212 EDC-1/2 Test Layer 0]

```
[ X-3212 DVD Test ] EDC-1

Layer: 0
ID : 10030000

[1] cursor right
[2] cursor left
[3] cursor up
[4] cursor down
[5] Start EDC-1

Press [BACK] to DVD Test top( EDC end )
```

Note) Value of the ID will change upon execution of the command.

- [1] Shift the blue digit of the ID to the right by one digit.
- [2] Shift the blue digit of the ID to the left by one digit.
 (Shifting can be made up to the 3rd digit from the left.)
- [3] The number of the blue digit of the ID is increased by 1.
- [4] The number of the blue digit of the ID is decreased by 1.
- [5] Start of EDC test
- OK] Execution
 - [BACK] Exit from MS5 check.

3. X-3212 EDC-1/2 Test Layer 1]

Note) Value of the ID will change upon execution of the command.

- [1] Shift the blue digit of the ID to the right by one digit.
- [2] Shift the blue digit of the ID to the left by one digit.
 - (Shifting can be made up to the 3rd digit from the left.)
- [3] The number of the blue digit of the ID is increased by 1.
- [4] The number of the blue digit of the ID is decreased by 1.
- [5] Start of EDC test
 - [OK] Execution
 - [BACK] Exit from MS5 check.

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AVIC-D3/XU/UC

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Operational specifications for the LD energizing time setting

1. [x-3212 CD/DVD Energizing Time Mode]: LD initial screen

```
[ X-3212 CD/DVD Energizing Time Mode ]
   Display Mode   Data : TEST

[1] CD   LD-Energizing time display
   [2] DVD LD-Energizing time display
   [3] CD   LD-Energizing time set
   [4] DVD LD-Energizing time set

CD   LD-Energizing time : ST
   DVD LD-Energizing time : ST

Press [OK] to make a selection

Press [BACK] to Exit this Mode
```

Note) Value of the data will change upon execution of the command.

- [1] The current CD energizing preset time is displayed.
- [2] The current DVD energizing preset time is displayed.
- [3] Go to CD energizing time setting screen. (Not for service use)
- [4] Go to DVD energizing time setting screen. (Not for service use)
- [OK] Execution
- [BACK] Exit from MS5 check.

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6.10 USING THE TEST DISC

TEST DISC Part No.: GGV1303

Remote Control Uint Part No.: CXC6317 (Operation mode switch: SW1: AVH, SW2: DVD)

1. Start / Termination

1-1. Start

Α

After insertion of test disk, the title "NN700 TEST DISC" is displayed.

(If CD-ROM is the media for TESTDISC, background of the title will be red.)

If the [C] key on the remote controller is pressed while the title is being displayed, the menu screen appears.

If no key is pressed during the period, the first screen of test screens for line appears.

Title screen



1-2. Termination

No action is taken.

2. Key operation

Use the remote controller for operation.

D Basic operation method in the remote controller.

basic operation method in the remote controller.
• † (The cursor is moved up) [2] key
• ↓ (The cursor is moved down) [8] key
• ← (The cursor is moved left) [4] key
• → (The cursor is moved right)[6] key
Decision (Enter) [5] key
• Return and cancellation (Cancel) [C] key
• Inspection execution and re-inspection[0] key

- 1. Use [4] and [6] keys to select the menu screen.
- 2. Use [2] and [8] keys to select the test items and select [5] key and move to the testing screen.
- 3. Use [C] key to return to the menu screen.

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^{*} Please refer to explanation on each screen for details.

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Menu screens

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```
--- Self Test Menu ---
1. External Connection

    Data Communication (Short Circuit) Check
    Data Communication (Open Circuit) Check

4. Natural Drawing5. Back Camera check
6. VTR1 In check
7. VTR2 In check
8. FM Multiplex Tuner Error Rate
9. GPS Self check
[2/8]: Change cursol, [4/6]: Change page
[5] : Select item
```

```
--- Self Test Menu ---
10. Monitor adjustment check11. Language Flag setup mode
12. Memory all cleay
 [2/8]: Change cursol, [4/6]: Change page
 [5] : Select item
```

```
--- Self Test Menu ---
13. Software version display14. Picture RGB check15. GPS information16. GPS sensitivity measurement
17. Sound play
18. File Maintenance mode
19. Picture check
20. Device check(Design engineer only)21. Memory all clear (for Service)22. BackUp Memory clear
 [2/8]: Change cursol, [4/6]: Change page
 [5] : Select item
```

AVIC-D3/XU/UC

1. Connection check

Α

1. Connection check Illumination signal OFF Parking brake signal ON Reverse gear signal **NOR** Car speed signal 0 Gyro voltage / sigma 2.450V OK / 1.1 OK GSENS voltage / sigma 2.050 V OK / 1.1 OK CONST CONST Heading Pitch Key check **DOWN** K-MODE [8] It progresses to the next inspection.

- The status of above items is updated approximately every single second.
- Set ANTON port to H when starting the inspection and set to L when ending.
- When the gyro is in operation, a BEEP sound will be made when the G sensor is activated. Right: 500 Hz, Left: 700 Hz, Up: 800 Hz, Down: 600 Hz
- · Conditions for moving on to the next inspection

Illumination status is changing between ON and OFF.

Parking brake status is changing between ON and OFF.

Reverse status is changing between NOR and REV.

Pulse is changing to a value other than 0/0.

K-mode status is changing between ON and OFF.

Standard value for other items

GYRO voltage

OK: 2.5 ± 0.15

USABLE: 2.5 ± 0.30

· GYRO variation

OK: Less than 30

G sensor voltage

OK: 2.5 ± 0.15

USABLE: 2.5 ± 0.30

 G sensor variation OK: Less than 60

- Only when all the conditions are met, you can move on to the next inspection by the [8] key on the remote controller. It should be noted, however, that you will not be able to move on to the next inspection if there is an error (background color is red) even if the conditions are met.
- Checking of "K-MODE" is available only on the UC model. "K-MODE" will not be displayed on the EW model.

<Supplemental explanation regarding error display>

Displayed message	Details of the error
Structure data error	An error that is generated when data cannot be received from the AD converter. The possible cause is the device error in the AD converter.
	This error is also generated when the car speed pulse cannot be measured. (rare case)
DRAGON unconnected	An error that is generated when communication is not established with DRAGON.
	The possible cause is the hardware error causing interruption of communication.
	It is highly likely that this results from the hardware error of DRAGON.
Command error	A response timeout error for BIOS call.
	The possible cause is the hardware error causing interruption of communication.
	It is highly likely that this results from the hardware error of DRAGON.
Unknown error	Error of unknown causes.

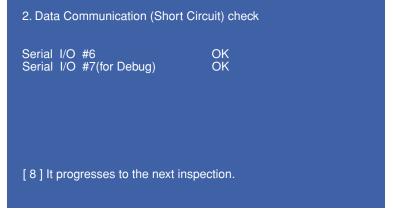
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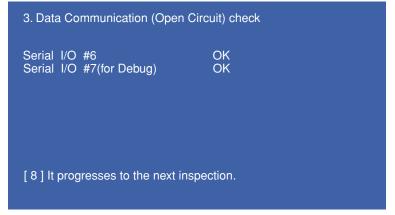
.



- · Short circuit in SIO connection is checked.
- · Loopback in 6CH and 7 CH is checked.

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- A "wait" screen is displayed until the check is completed.
- While the test result screen is being displayed, press the [0] key to perform retesting.
- Only when "OK" is displayed, you can go on to the next test with the [8] key.
- 3. Data Communication (Open Circuit) check (Not for service)



- Open circuit in SIO connection is checked.
- 6CH and 7CH are checked.
- Do not connect anything to the terminal. In the released state, "OK" will be displayed.
- A "wait" screen is displayed until the check is completed.
- While the test result screen is being displayed, press the [0] key to perform retesting.
- Only when "OK" is displayed, go on to the next test with the [8] key.

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4. Natural Drawing

- Nature images with 256 colors are drawn on the BG surface.
- The ADPCM 1 kHz sine wave, which sampling rate is 19 kHz, is output for 30 seconds.
- With the [NAVI] key, GUIDEON terminal can be switched between "H" / "L" with a toggle.
- With the [4] key or the [6] key, the volume can be changed. [JPEG file name: ZHITO1.JPEG] [Audio file name: A19K01KS.WAV]
- Press the [8] key to go on to the next test.

5. Back Camera check

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Images in the back camera

In this test, check with eyes that images in the back camera is being displayed.

- Images in the back camera are displayed.
- Press the [8] key to go on to the next test.

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6. VTR1 In check

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External input image

- On the screen, external input video (Front VTR image) is displayed.
- Press the [8] key to go on to the next test.

7. VTR2 In check



External input image

- On the screen, external input video (Rear VTR image) is displayed.
 Press the [8] key to go on to the next test.

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8. FM multiplex tuner error rate measurement

8. FM multiplex tuner error rate measurement

Push 0 key to go to re-check.

FM Frequency 87.50
Frequency to check 87.50
Blocks Received Correctly 0500
Blocks with one bit corrected 0000
Blocks with two bits corrected 0000
Blocks Received with error 0000

[4 / 6] to adjust FM frequency 8] It progresses to the next inspection.

- FM multiplexing error is measured.
- In the case of UC model, this inspection is not performed and the system will move on to the next inspection.
- Default frequency is 87.5 MHz.
- When entering this mode for the first time, the result of measurement at the time of test disc boot up will be displayed.
- After the measurement is taken, the frequency can be changed by the [4] and [6] keys.
- 500 blocks will be measured, and if there are 450 or more blocks without error, then it will be determined as OK.
- Only when "OK" is displayed, you can go on to the next test with the [8] key.
- Use the [0] key to start re-inspection.

9. GPS Self check

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9. GPS Self check

2005/03/22 15:00:00

Using satellites No.
01 02 03 04 05 06 07 08

Antenna connection OK
Receiving signal level 13.5
Latitude 3D 35 55 47.1
Longitude 139 28 30.0

[8] It progresses to the next inspection.

- The GPS reception state is displayed.
- · Conditions to go on to the next test
- The antenna connection is "OK".
- Data is obtained from one or more satellites.
- Time is being displayed.
- When all of the above conditions are satisfied, the background color changes into blue.
- Only when all of the above conditions are satisfied, go on to the next test with the [8] key.
 However, in case of error occurs (background: red), you cannot go on to the next test even if all conditions are satisfied.
- In case a command error has occurred during GPS signal receiving inspection, the detailed screen of the command error will be displayed.
- There are two screens for the command error detailed screen, a screen that displays the state of BIOS call used in GPS signal receiving in real-time and a screen which displays the history from the time of command error occurrence up to 40 times, and the screen can be switched between these two by [5] key.

To save the error information, it is so designed that you cannot return from the command error detailed screen to the normal inspection screen. If you desire to resume the inspection, eject the disc once, and insert the test disc once again.

AVIC-D3/XU/UC

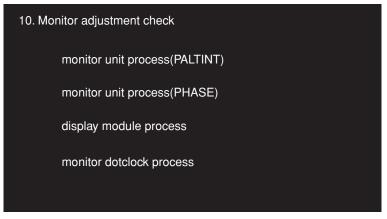
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<Supplemental explanation regarding error display>

Displayed message	Details of the error
No connection to DRAGON	This is an error when communication with DRAGON is not established.
	Communication error due to a hardware problem could be the cause.
	It is highly possible that the hardware on the DRAGON side is defective.
Command error	Time out error for response to BIOS call.
	Communication error due to a hardware problem could be the cause.
	It is highly possible that the hardware on the DRAGON side is defective.
Invalid data	This is an error when request is made while the data for response is not
	prepared (not obtained from DRAGON).
	Communication error due to a hardware problem could be the cause.
	It is highly possible that the hardware on the DRAGON side is defective.

10. Monitor adjustment check



- Each state of "PHASE adjusted flag", "PALTINT adjusted flag", "Flicker adjusted flag" and "dotclock adjusted flag" is obtained from the microcomputer, and the result of whether the monitor has been adjusted or not will be displayed.
- While there is no difference between the EW model and the UC model in terms of the screen specifications, the monitor is judged to be adjusted if all adjusted flags are ON for the EW model and if "PHASE adjusted flag" and "PALTINT adjusted flag" are OFF but "Flicker adjusted flag" is ON for the UC model, and you can proceed to the next inspection by pressing the [8] key.
- If the above conditions for the EW and the UC models are not met, the monitor is judged to be unadjusted and NG screen will be displayed.

11. Language Flag setup mode



- When the system enters into this inspection, language selection will be set to the original setting made at the time of shipment (i.e. no setting).
 - * The setting is made to display the screen for selecting the language to be used at the initial boot up after the shipment out of the factory.
- The setting is made when the system enters into this inspection.
- Press the [8] key to go on to the next test.

AVIC-D3/XU/UC

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12. Memory all clear (Not for service)

The clearance of SRAM (application domain)
The clearance of Flash (application domain)
Elimination of a sensor study value

[0] Inspection is performed.

- SRAM (application domain) is cleared.
- FLASH (application domain) is cleared.
- · Sensor learning level is cleared.
- If SRAM clear is not successful, FLASH will not be cleared.
- After displaying the test screen, press the [0] key to execute the above processing.
- The execution results are displayed.
- Only when all is "OK", press the [8] key to end the production engineering test and return to the menu screen.

13. Software version display

13. Software version System boot / OS version 0.17 / 0.17 Application version 0.010200 Syscom version 2.01 7.01 Monitor micom version 10.20 05/03/22 0.60 GPS program version 07 EW (0x37) GPS model 1.00 Mecha micom version [C] It returns to a screen.

- The software versions are displayed.
- As for the GPS model, it will be considered OK if "07 EW (0x37)" is displayed in the case of EW model and if "07 UC (0x38)" is displayed for UC model.

14. Picture RGB check

- Bridge tests are performed for RGB.
- Pressing the [4] key or the [6] key switches the screens.
- RGB is plotted in the following pattern: R100% -> R50% -> G100% -> G50% -> B100% -> B50%
- 6 screens are displayed in total.

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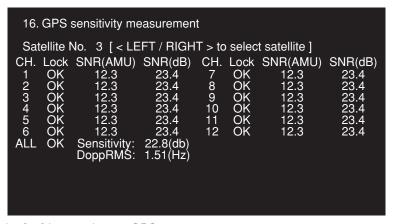
;

15. GPS information

15. GPS information										
0D T2 H25.5 V25.5			05/03/22 15:00:00							
SV Azi 10 119 26 25 18 310 23 305 17 317 9 196	Ev 39 60 25 33 49 56	SNR 3.0 4.9 0.0 0.0 0.0 0.0	Flag UY UYC- m m m	Acc 3 2 f f f f	SV 3 14 4 12 15 6	Azi 119 25 310 305 317 196	Ev 39 60 25 33 49 56	SNR 3.0 4.9 0.0 0.0 0.0 0.0	Flag UY UYC- m m m	Acc 3 2 f f f f
Position Sv Stat Ver & Diag Err Info										

- The information displayed switches with the [4] key and the [6] key.
- Pressing the [5] key while the cursor is placed at "Position" displays the "position information".
- Pressing the [5] key while the cursor is placed at "Sv Stat" displays the "status information".
- Pressing the [5] key while the cursor is placed at "Ver&Diag" displays the "diagnostic information".
- Pressing the [5] key while the cursor is placed at "Err Info" displays the "error information".
- In the test, "status information" (above screen) is displayed first.

16. GPS sensitivity measurement



- Press the [4] key or the [6] key to change GPS.
- The GPS sensitivity selected with the [5] key is displayed.
- If communication with the GPS unit fails, an error screen is displayed.

<Supplemental explanation regarding error display>

Displayed message	Details of the error
No connection to DRAGON	This is an error when communication with DRAGON is not established.
	Communication error due to a hardware problem could be the cause.
	It is highly possible that the hardware on the DRAGON side is defective.
Command error	Time out error for response to BIOS call.
	Communication error due to a hardware problem could be the cause.
	It is highly possible that the hardware on the DRAGON side is defective.

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17. Sound play

17. Sound play

ADPCM fixation 11K 1K L
ADPCM fixation 11K 1K R
ADPCM fixation 11K 1K R
ADPCM fixation 11K 1K R
ADPCM fixation 19K 1K L
ADPCM fixation 19K 1K L
ADPCM fixation 19K 1K R

Guidance Vol.[0-15](level)

[4/6] Vol up/down
[C] It returns to a menu screen.

- · Audio files (in WAVE format) are played back.
- When entering the screen, set the GUIDEON terminal to "H", and reset to "L" when exiting it.
- Press the [5] key to play back the selected audio.
- Press the [4] key or the [6] key to change the volume.
- 18. File Maintenance mode

В

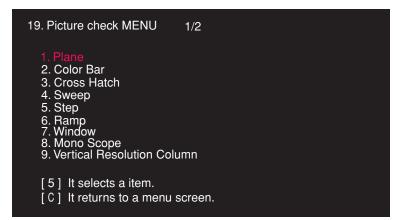
С

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- Files can be copied, deleted, or dumped. See HELP for usage of each function.
- 19. Picture check



• Select a pattern with the [2/8] key and press the [5] key to display the image.

AVIC-D3/XU/UC

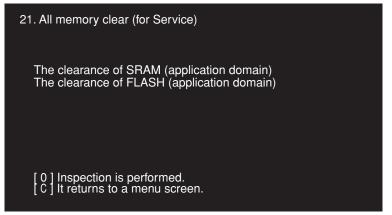
252

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;

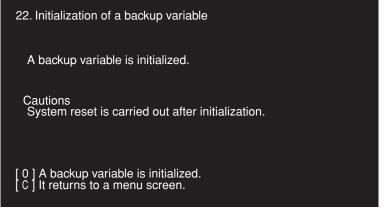
- The above devices will be inspected for engineering purpose.
- A device is selected by the [2] and [8] keys on the remote controller, and cleared by the [5] key.
- On each device screen, a pattern is selected by the [2] and [8] keys, and inspection is started by the [5] key.

21. Memory all clear (for Service)



- SRAM (application region) is cleared.
- FLASH (application region) is cleared.
- If SRAM clear is not successful, FLASH will not be cleared.
- After displaying the test screen, press the [0] key to execute the above processing.
- The execution results are displayed.

22. BackUp Memory clear



- Press the [0] key to initialize the backup variables and to reset the system.
- Press the [C] key to return to the menu screen.

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7.1 DIAGNOSIS

7.1.1 DISASSEMBLY

Removing the Case (not shown)

7. GENERAL INFORMATION

1. Remove the Case.

Removing the Grille Assy (Fig.1)



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С

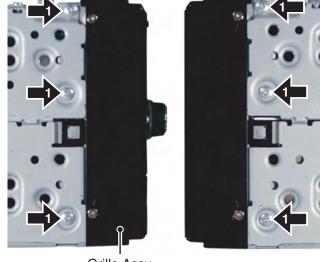
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Remove the six screws.

Disconnect the connector and then remove the Grille Assy.

*) When attaching the Grille Assy onto the main body, make the Grille Assy stick to the main body by hand (there shall be no gap), and fix them using the screws.



Grille Assy

Fig.1

Removing the Monitor Unit (Fig.2)



Remove the five screws.

Disconnect the connector and then remove the Monitor Unit.

*) Be sure to place the remote controller with the optical receiver facing up. Otherwise the leads of the optical receiver may be bent.



Monitor Unit

Fig.2

AVIC-D3/XU/UC

Removing the LCD Assy (Fig.3)

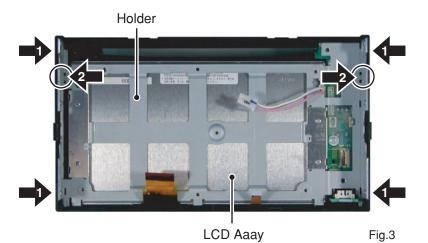


Remove the four screws.



There is a gap between the Holder and the Grille. Put your finger in the gap and push out the Grille toward outside to release the fixed section of the Grille and the Holder. (both left and right)

*) Do not bend the Holder.



■ Installation of the LCD Assy (Fig.4)



Match the three claws as shown on the drawing to the corresponding sections of the Grille. When doing so, put the Holder onto the Grille in a way that the broken-out section of the Holder will be totally hidden.



Push the two locations as shown on the drawing, and push all the way to the back so that the claws of the Holder and the Grille snaps in.

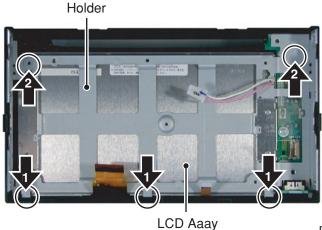


Fig.4

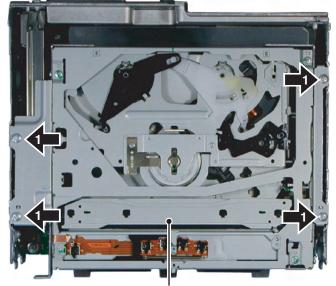
Removing the DVD Mechanism Module (Fig.5)



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Remove the four screws.

Disconnect the connector and then remove the DVD Mechanism Module.



DVD Mechanism Module

Fig.5

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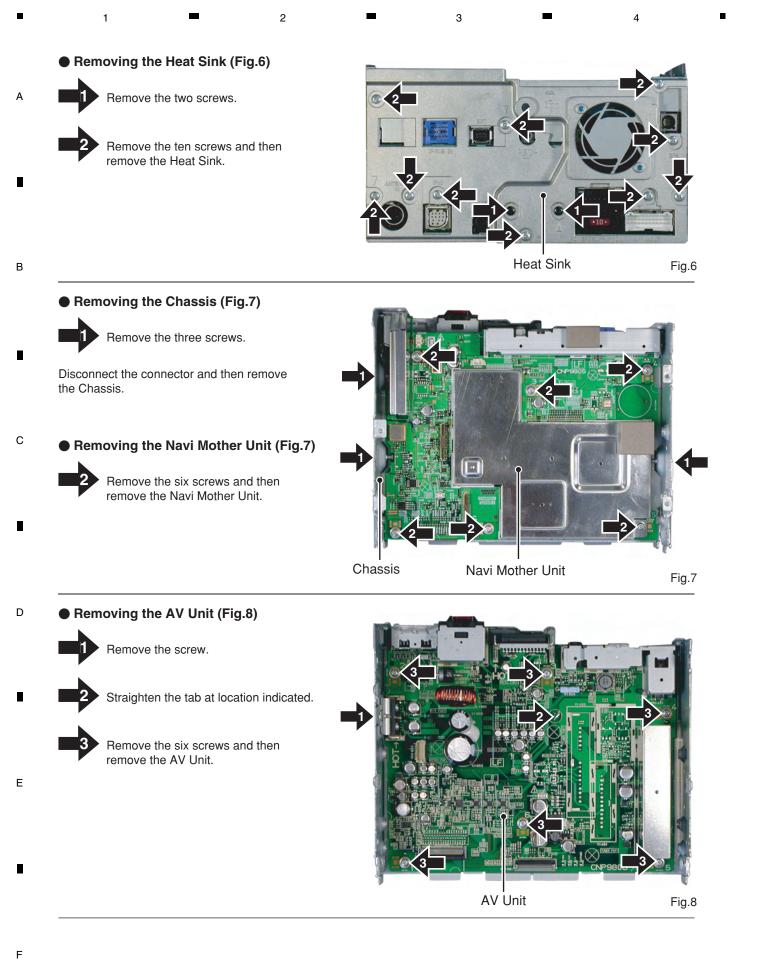
AVIC-D3/XU/UC

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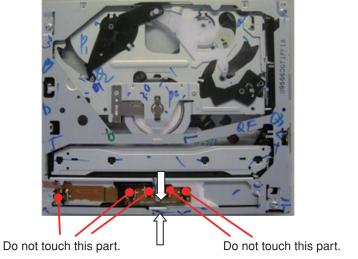
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- 1. Hold the main frame and the top frame.
- 2. As the mechanical strength of the front part of the top frame is not strong, do not hold this part.
- 3. Do not touch the switches provided on the top face of the mechanism section.
- 4. Be careful not to pull the flexible PCB on the side face.

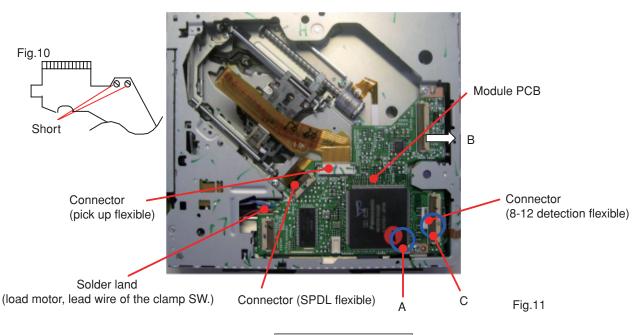


Do not touch this part.

● How to remove the module PCB (Fig.10, Fig.11)

- 1. Put the mechanism section in locked state (disc load standby position).
- 2. Hold the mechanism module with its top face down.
- 3. Make the lands at 2 locations on the pick up flexible PCB short.
- 4. Disconnect the connectors of the pick up flexible PCB and the SPDL flexible PCB. (Be sure to disconnect the connectors as the flexible PCB will be damaged if the PCB is removed without removing the flexible PCB.)
- 5. Remove the solder joint of the lead wire of the load motor and the clamp SW.
- 6. Remove the two screws, and then remove the module PCB.

 (Lift up point A slightly and remove it toward B direction. Be careful as the point C is connected with a flexible PCB.)
- 7. Disconnect the connector of the 8-12 detection flexible PCB from the PCB.



AVIC-D3/XU/UC

Fig.9

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● How to remove the CRG motor assy (Fig.12)

- 1. Remove the module PCB according to the instructions in iHow to remove the module PCBî.
- 2. Remove the Mylar tape.
- 3. Remove the flexible PCB of the CRG motor from the connector of the spindle motor.
- 4. Remove the two screws, and then remove the CRG motor assy.

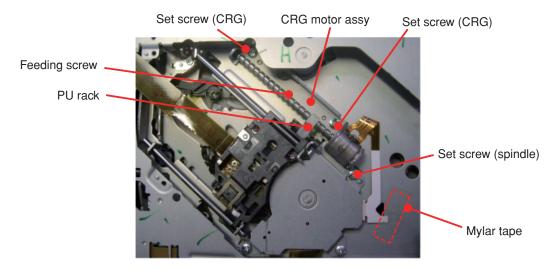
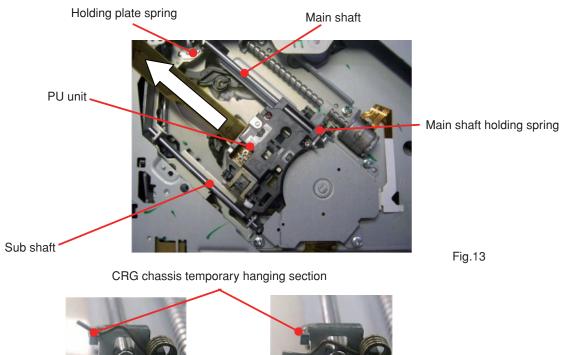


Fig.12

How to remove the PU unit (Fig.13)

- 1. Remove the module PCB according to the instructions in "How to remove the module PCB".
- 2. Hang the main shaft holding spring to the CRG chassis temporary hanger.
- 3. Remove the CRG motor assy according to the instructions in "How to remove the CRG motor assy".
- 4. Remove the holding plate spring of the main shaft.
- 5. While lifting up the tip of the pick up rack, slide the main shaft, and remove the PU unit.

(Note) When mounting the PU unit again, make sure to do the adjustments of the devices mounted thereon according to the descriptions of the service manual. Furthermore, make sure to hang the main shaft holding spring permanently.



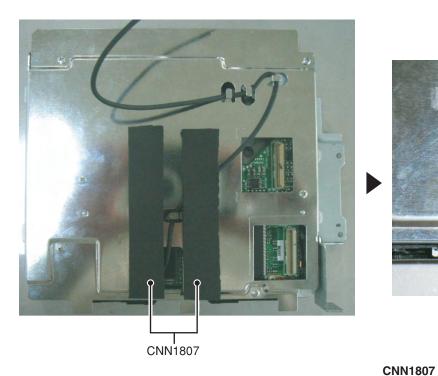
С

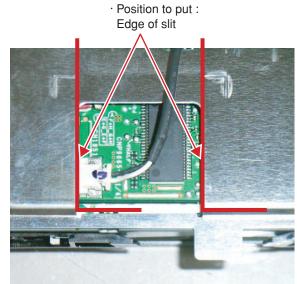
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How to install the gasket, cushion and shield

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CNN1807

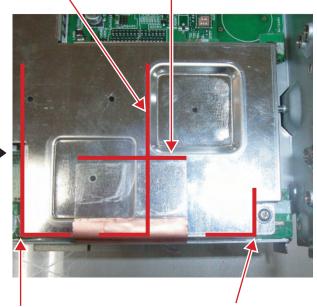
CNN1806

· Position to put(Right and left) : During CNN1804 and CNN1807

8

· Position to put(Depth) : Edge of dent





CNN1807

· Position to put : Set it to the position of the corner.

· Position to put :

Edge of dent

CNN1804

· Position to put : Set it to the position of the corner.

* Caution

CNN1806: Recycling is not possible, use the new shield.

Put it not to slack.

CNN1807: When the adhesive strength is weak, use the new cushion.

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7.1.2 CONNECTOR FUNCTION DESCRIPTION

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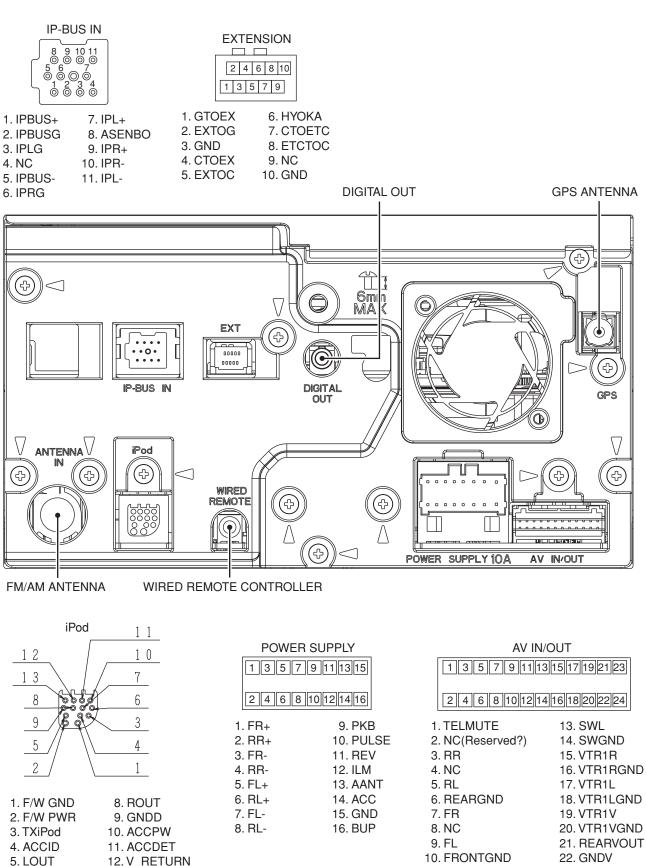
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6. RXiPod

7. VOUT



3

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13. A RETURN

4

23. BCV

24. BCVGND

11. SWR

12. BREM

7.2 IC

BD3931HFP

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K4S561632H-UL75	S-814A50AUC-BDO	PE5584A
HY57V561620FLTP-H	UPD4723GSS1	S-93C46BR0I-J8
UPD705103GM-180S1	TPS5120DBT	PD6567A
TC74LCX08FTS1	UPB1027GS	LZ9FE30
TC7SH04FUS1	PEH100A8	S-80859CNNB-B9K
PD6336C	PEH101A8	BD9851EFV
PEH103A	PD3390A	EDS1232AATA-75
PEH077A	LC72720YVSS1	PCM1753DBQ
PEH104A	ADC12H034CIMSAS1	NJM2880U1-05
PEH078A	BA00CCWCP-V5	TC74LCX16373FT
AK4388VT	BA00CCWFP	CWW1423
MB86291APFVS-G-DL	NJM2505F	CWW1424
TC7WH32FU	BA4558RFVM	MN2DS0016
BD5335FVE	PAL007C	BD7996EFV
PE5580A	RB5P0090M	
PE5581A	TC74VHC221AFTS1	

GP1UX51RK

K4S561632H-UL75 HY57V561620FLTP-H VDD 1 54 VSS VDD 1 0 54 VSS 0 DQ0 2 DQ0 2 53 DQ15 53 DQ15 VDDQ 3 VDDQ 3 52 VSSQ 52 VSSQ DQ1 4 DQ1 4 51 DQ14 51 DQ14 DQ2 5 A0-A11: Address input DQ2 5 A0-A11: Address input 50 DQ13 50 DQ13 BA0-BA1: Bank select address BA0-BA1: Bank select address VSSQ 6 VSSQ 6 49 VDDQ 49 VDDQ DQ0-DQ15: Data input/output DQ0-DQ15: Data input/output CLK: Clock input CLK: Clock input DQ3 7 DQ3 7 48 DQ12 48 DQ12 CKE: Clock enable CKE: Clock enable DQ4 8 DQ4 8 CS: Chip select 47 DQ11 $\overline{\text{CS}}$: Chip select 47 DQ11 RAS: Row address strobe RAS: Row address strobe VDDQ 9 VDDQ 9 46 VSSQ 46 VSSQ **CAS**: Column address strobe **CAS**: Column address strobe DQ5 10 WE: Write enable WE: Write enable DQ5 10 45 DQ10 45 DQ10 LDQM : Lower DQ mask enable LDQM: Lower DQ mask enable DQ6 11 DQ6 11 UDQM: Upper DQ mask enable 44 DQ9 UDQM: Upper DQ mask enable 44 DQ9 VDD: Power supply VDD: Power supply VSSQ 12 VSSQ 12 43 VDDQ 43 VDDQ VSS: GND VSS: GND DQ7 13 VDDQ: Data output power supply VDDQ: Data output power supply 42 DQ8 DQ7 13 42 DQ8 VSSQ: Data output GND VSSQ: Data output GND VDD 14 VDD2 14 41 VSS 41 VSS NC: Not used NC: Not used LDQM 15 40 NC LDQM 15 40 NC WE 16 WE 16 39 UDQM 39 UDQM CAS 17 38 CLK CAS 17 38 CLK RAS 18 37 CKE RAS 18 37 CKE CS 19 CS 19 36 NC 36 NC 35 A11 BA0 20 35 A11 BA0 20 BA1 21 34 A9 BA1 21 34 A9 A10/AP 22 33 A8 A10/AP 22 33 A8 A0 23 32 A7 32 A7 A0 23 A1 24 31 A6 A1 24 31 A6 A2 25 30 A5 A2 25 30 A5 A3 26 29 A4 A3 26 29 A4 VDD 27 VDD 27

AVIC-D3/XU/UC 261

28 VSS

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UPD705103GM-180S1

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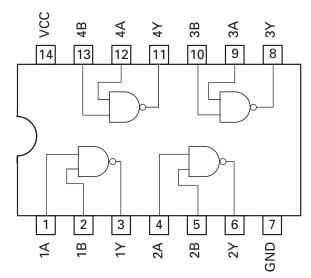
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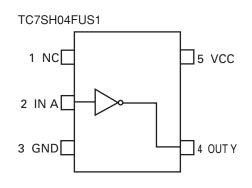
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TC74LCX08FTS1





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PD6336C

Pin Arrangement Chart

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ent	(از	16	ar	t																
64	63	62	61	09	29	58	57	56	55	54	53	52	51	20	49	48	47	46	45	44	43
92	142	141	140	139	138	137	136	135	134	133	132	131	130	129	128	127	126	125	124	123	42
99	143	212	211	210	209	208	207	206	205	204	203	202	201	200	199	198	197	196	195	122	41
29	144	213	274	273	272	271	270	269	268	267	266	265	264	263	262	261	260	259	194	121	40
89	145	214	275											258	193	120	39				
69	146	215	276															257	192	119	38
70	147	216	277															256	191	118	37
71	148	217	278															255	190	117	36
72	149	218	279															254	189	116	35
73	150	219	280															253	188	115	34
74	151	220	281															252	187	114	33
75	152	221	282							VI DV 001	7 7 7							251	186	113	32
9/	153	222	283							È	_							250	185	112	31
11	154	223	284															249	184	111	30
78	155	224	285															248	183	110	29
79	156	225	286															247	182	109	28
80	157	226	287															246	181	108	27
81	158	227	288															245	180	107	26
82	159	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	179	106	25
83	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	105	24
84	82	98	87	88	68	06	91	92	93	94	92	96	26	86	66	100	101	102	103	104	23
_	2	က	4	2	9	7	∞	6	10	11	12	13	14	15	16	17	18	19	20	21	22
																					_

VSS	ADC_DATA	ADC_LRCLK	TEST4	EXTAL1	OVSS4	XTAL1	TEST3	DAC_LRCLK	DAC_DATA	PI021	OVSS3	CD_DATA	PI018	PI016	PI014	PI012	PIO10	PI08	PIO6	PIO4	Ī
ADC_GCNT2	ADC_GCNT0 ADC_GCNT1 ADC_DATA	ADC_BCLK ADC_LRCLK	ADC_MCLK	A6	A8	A10	TEST2	PC_READY DAC_MCLK DAC_LRCLK	PC_RESET DAC_BCLK DAC_DATA	PC_XREG	PC_A0	PI020	PI019	PI017	PI015	PI013	PI011	P109	PI07	PIO5	İ
CD_MCLK ADC_GCNT2	ADC_GCNT0	A3	A4	A5	A7	A9	A12	PC_READY	PC_RESET	PC_WXT	PC_BVD2	PC_WP	PC_XCD2	PC_XCE1	PC_XCE2	PC_XVS1	PC_XIORD	PC_XIOWR	PC_XWE	PI02	
D31	CD_BLK	A2	VSS	VDD	VPDP	VDD	A11	VSS	PC_XVS2	VDD	VDD	PC_BVD1	VSS	PC_XCD1	VDD	PC_XOE	VSS	VSS	PC_XUBUF	PC_XLBUF	
DSP_ATTCNT	CD_LRCLK	D30	NSS															VDD	ATA_DA2 ATA_XCS1 PC_XPWR PC_XUBUF	ATA_DIR	
DSP_XRS	TEST1	D29	D28															ATA_XCS0	ATA_XCS1	ATA_DD6 ATA_XRESET UART_XDCD ATA_DD11 UART_XRI ATA_DD15 UART1_XDTR	
OVDD2	OVSS5	D27	VDD															VDD		ATA_DD15	İ
XCS_SRAMH	PIO_OUT	D26	D25															ATA_DD14	ATA_DD12 ATA_DD13	UART_XRI	
OSP_BCLKO	D24	D23	NSS															NSS	ATA_DD12	ATA_DD11	İ
DSP_BFSO DSP_BCLKO XCS_SRAMH	DSP_BDO	D22	D21															ATA_DD10	ATA_DD9	JART_XDCD	İ
00.886	D20	D19	VDD															VDD	ATA_DD8	TA_XRESET	
JSP_HRDY	D18	D17	VDD							TOP VEIW								VDD	ATA_DD7	ATA_DD6	
DSP_XHINT DSP_HRDY	PIO23	D16	D15							ĭ								ATA_DD5	ATA_DD4	UART1_RXD	İ
DSP_BFSI	D14	D13	NSS															NSS	ATA_DD3	ATA_DD2	İ
DSP_BDI	XCS_DSP	D12	D11															ATA_DD1	ATA_DD0	JART3_RXD	
OVDD3	D10	6Q	VDD															VDD	TA_DMARQ	ATA_XDIOW UART3_RX	
PI022	OVSS7	D8	D7															ATA_XDIOR	ATA_IORDY A	XRESET	
PI024	D6	DS	VDD															/ SS/	ATA_XDMACK ATA_IORDY ATA_DMARQ	UART4_RXD	
PI025	D4	D3	VSS	VSS	XLUBEN	VDD	NC	VSS	NC	VDD	VDD	XCS5	VSS	DREQ2	VDD	INT1	VDD	VSS	ATA_INT	00000	
DSP_BCLKI	PI026	D2	D1	XMWR	XLLBEN	XIORD	NC	NC	NC	XBCYST	XCS2	XCS3	DRE Q0	DREQ1	INT3	INT2	0LNI	ATA_DA0	ATA_DA1	JART6_RXD	
PIO27	PIO28	XCS_FLASH	D0	XMRD	USBPWREN	XIOWR	NC	NC	NC	XREADY	SRAM_CSSEL	PIO30	XCS6	XTST	SMCK	XSM	GDC_WT	UART9_TXD UART9_RXD	UART8_TXD UART8_RXD ATA_DA1	UART7_TXD UART7_RXD UART6_RXD	
VSS	PI029	USBXPWREN XCS_FLASH	JSBXOVRCUR	UVD1M	UVD1P	UVD2M	UVD2P	USBOVRCUR	USB_CLK	XCS_SRAM	XWR_SRAM SRAM_CSSEL	PI031	IR_RX	TEST0	XTAL0	MST	EXTAL0	ART9_TXD	ART8_TXD	ART7_TXD	l

AVIC-D3/XU/UC

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Block Diagram Chart

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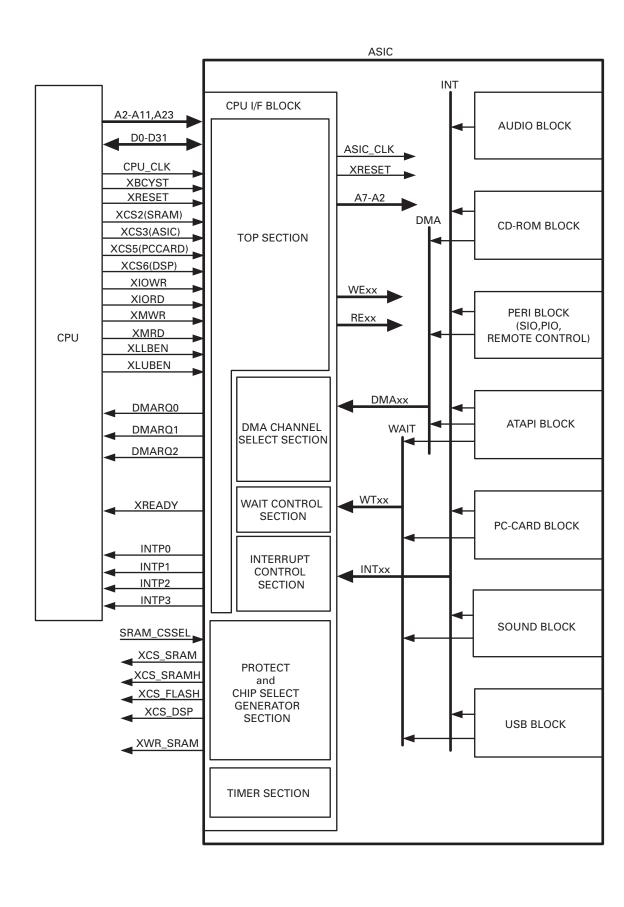
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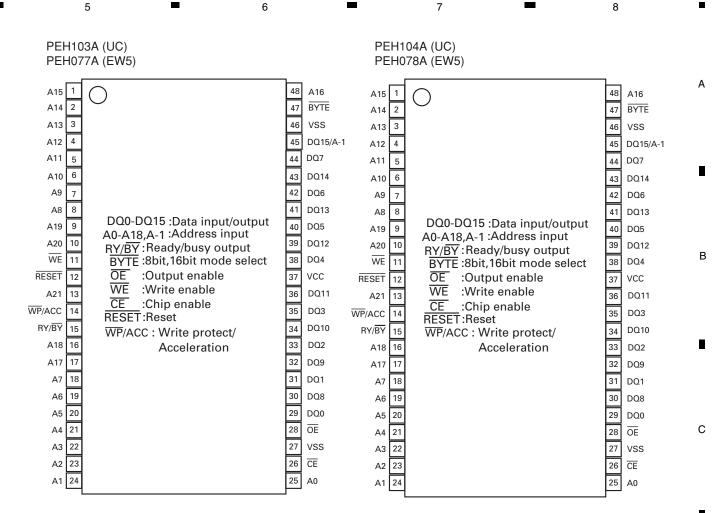
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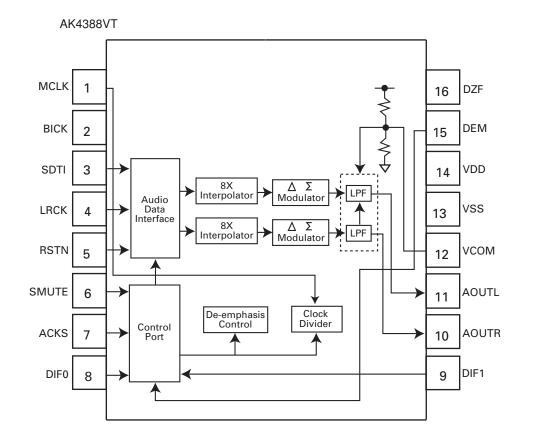
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AVIC-D3/XU/UC

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MB86291APFVS-G-DL

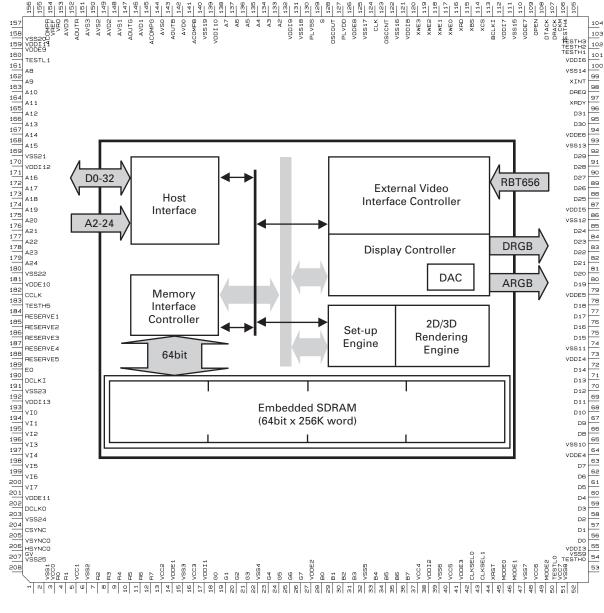
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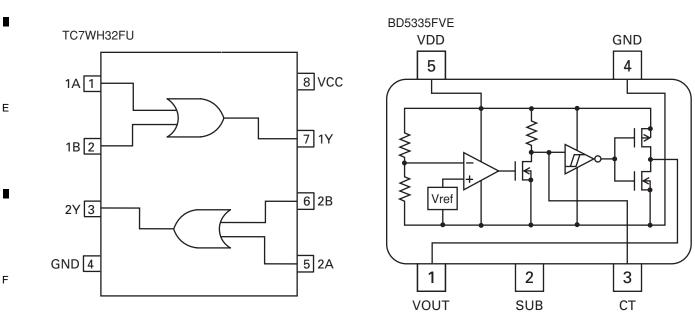
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AVIC-D3/XU/UC

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● Pin Functions (UC : PE5580A, EW5 : PE5581A)

Pin No. 1 2 3 4 5	Pin Name SIMUKE3 SIMUKE0 SIMUKE1	I/O I I	Function and Operation Type input Type input
2 3 4 5	SIMUKE0	l	
3 4 5		1	! I voe input
4 5	SIMUKE1		
5	011 11 11 /= 0	!	Type input
	SIMUKE2	l	Type input
	GND0		GND
6	ROMCS	0	ROM collection chip select output
7	ROMCLK	0	ROM collection clock output
8	ROMDATA	I/O	ROM collection data input/output
9	VDT	0	E. volume data output
10	VCK	0	E. volume data clock output
11	MUTEVO	0	E. volume mute output
12	VST	0	E. volume strobe output
13	ROT1	I	Rotary encoder input
14	ROT2	I	Rotary encoder input
15-21	NC		Not used
22	VDD0		Power supply
23	RDT	1	RDS : Data input (EW model)
24	RDS57K	i	RDS : 57 kHz pulse count input (EW model)
25	RDSLK	i	RDS : Lock signal input (EW model)
26-28	NC	· '	Not used
29	WCONT	1	Wired remote control SEL input
30-32	NC	+ '-	Not used
33	DALMON	0	For consumption current reduction output
33	DD8CONT	0	MS5 power supply control output
35	NC	1	Not used
36	CLKOUT	0	System clock output
37	GND0		GND
38	CPUREG		CPU regulator connection
39	VDD0		Power supply
40	RESET	l	System reset input
41	VPP		Flash ROM writing voltage supply
42	FLASH1	I	Flash ROM writing data input
43	FLASH2	0	Flash ROM writing data output
44	FLASH3	0	Flash ROM writing clock output
45	LDET	I	RDS : PLL lock signal input (EW model)
46	TUNDI	I	FM/AM tuner data input
47	TUNDO	0	FM/AM tuner data output
48	TUNCLK	0	FM/AM tuner clock output
49-51	NC		Not used
52	MUTENS		Not used
53	NOSELL	0	L ch guide mute control output
54	NOSELR	0	R ch guide mute control output
55	NC		Not used
56	PGSEL		Not used
57	RCK	ı	RDS : Data clock input (EW model)
58	TELIN	i	Mobile phone mute input
59	VPPON	Ö	Voltage supply control output
60	VDD1		Power supply
61	SREMOT	0	Control output for system remote
62	SYSPWR	0	System power supply control output
63	FANCONT	0	Fan output control output
64	ANTON	0	Control output for auto antenna
65	XVMUTE	0	Composition mute output
66	NC	-	Not used
67	FCONT	0	Control output for DD converter
68	NC	1	Not used
69	BLSENS		B. up power supply sense input
70	XT2		Not used
71	XT1		Not used
72	GND2		GND
73	X1		Crystal oscillating element connection
	X2	1	Crystal oscillating element connection
74 75	NMI		Not used

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Dia Na	Din Mana	1/0	For the and Or cotton
Pin No.	Pin Name ACONTA	1/0	Function and Operation
76 77	ACONTA	0	Audio switch control output Audio switch control output
78	DRAMPW	0	DRAM power supply control output
79	CCON	0	Navigation power supply control output
80	SIMUKE4	Ī	Type input
81-83	NC	'	Not used
84	VSEL1	0	Picture selector control output 1
85	VSEL2	Ö	Picture selector control output 2
86	BCVSW	Ö	Picture selector control output (Back camera)
87	NC		Not used
88	ASENBO	0	ASENBO output for IP-BUS output
89	IPPW	0	IP-BUS driver power supply control output
90	RX	I	IP-BUS data input
91	TX	0	IP-BUS data output
92	GND1		GND
93-95	NC		Not used
96	ASENS	I	ACC power supply sense input
97	DEQON	0	DEQ connect enable output
98	MUTE	0	Mute output
99	GUIDEMUTE	_	Not used
100	TUNCE1	0	Chip enable output for FM/AM tuner
101	TUNCE2	0	Chip enable output for FM/AM tuner
102	VDD2		Power supply
103	CPUWDT		Watch dog timer input
104	RSTOUT	0	RSTOUT output
105	XCCSTBY	I	OFF processing completion input
106	RST3		Not used
107 108	MTOSYS SYSTOM	0	Monitor microcomputer UART communication (Reception) input Monitor microcomputer UART communication (Transmission) output
109	SWACPW	0	Monitor microcomputer OAA'r communication (transmission) output
110	PRGON	Ī	System microcomputer self programing mode ON input
111	RXIPOD	i	iPod : UART communication input
112	TXIPOD	0	iPod : UART communication output
113	IRQPWR	0	B. up OFF output
114	RSTOUT		NC
115	NC		NC NC
116	PSENS	ı	iPod : Connect sense input (communication)
117	CTOSYS	I	Navigation UART communication (Reception) input
118	SYSTOC	0	Navigation UART communication (Transmission) output
119	CPRESET		Not used
120	OPTON	0	Optical digital output
121,122	NC		Not used
123	PID	0	iPod : Communication mode notification output
124	PPW	0	iPod : Power supply control output
125	PSENSG		iPod : Connect sense input (connector)
126	ĪLLSNS		Illumination sense input
127	CPREADY		Not used
128	VDD1		Power supply
129	PBSNS		Parking brake sense input
130	BKSNS		Back gear sense input
131	GND1	.	GND
132	OPTSNS	!	Optical cable detection input
133	DVEJKY	I	MS3 eject key input
134	NC	-	Not used
135	TUNSL		Signal level inptut for FM/AM tuner
136	BLEVSNS		Not used
137	WREMIN REVMDL		Wired remote control AD input
138 139	FWSNS		Model type reversing switch input iPod: Control input
140	NC	'	Not used
141	TESTIN	1	Testmode input
141	TIMEOUT	<u> </u>	Time out input
143	ADCVDD	<u> </u>	A/D converter power supply
	UDOADD	1	I NE CONTROLLE POWER SUPPLY

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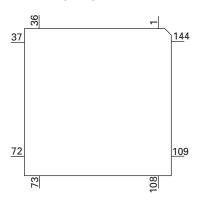
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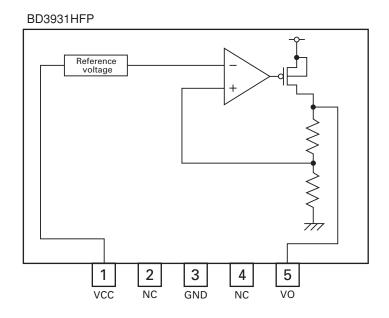
Pin No.	Pin Name	I/O	Function and Operation
144	ADCGND		A/D converter GND

PE5580A (UC) PE5581A (EW5)

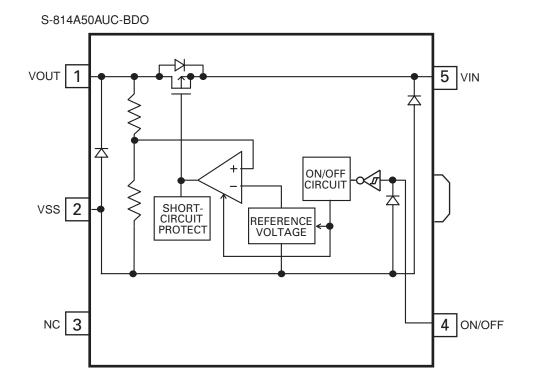
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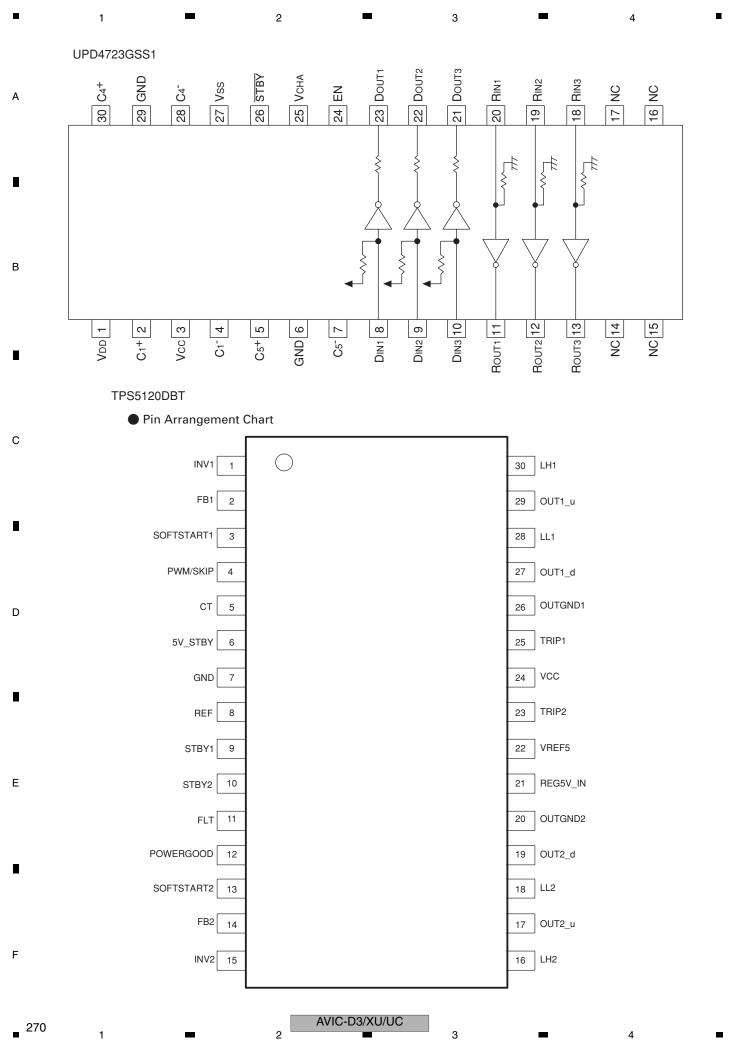
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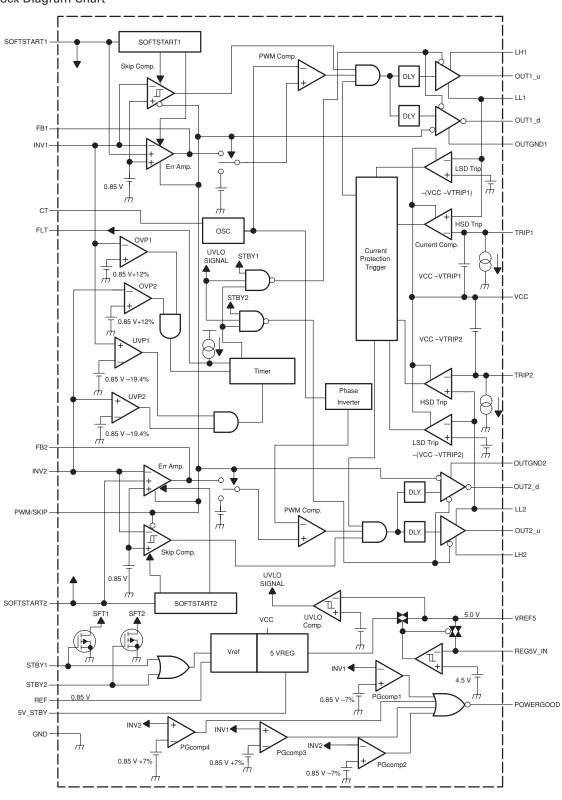
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Block Diagram Chart

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AVIC-D3/XU/UC

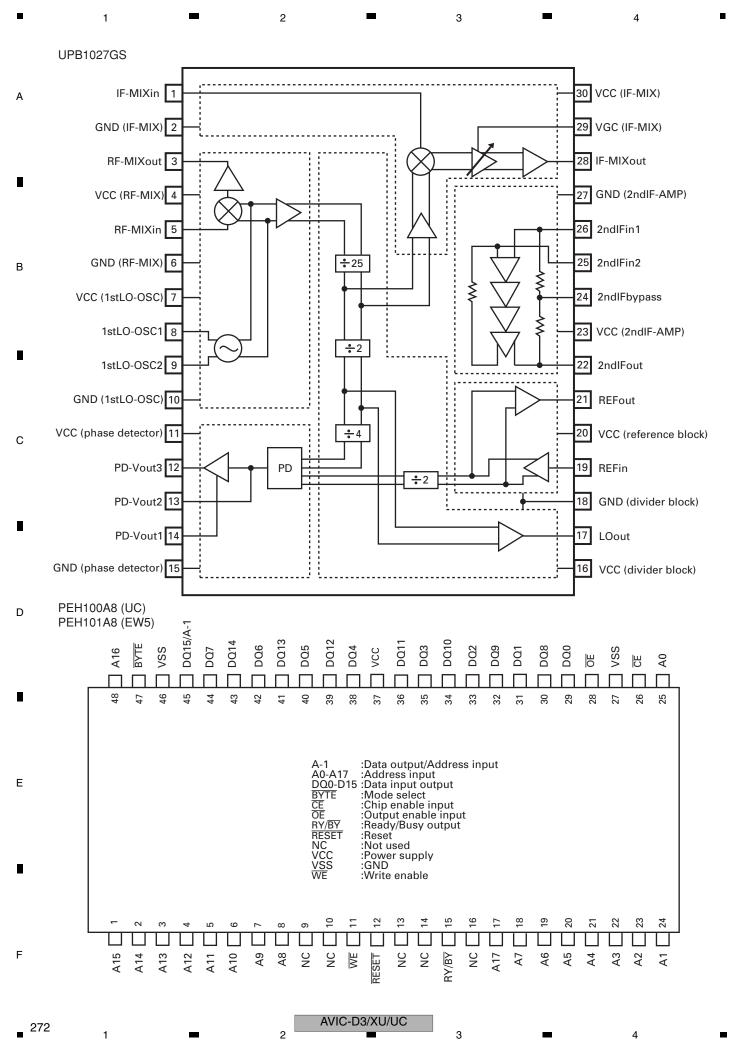
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Pin No.	Pin Name	I/O	Format	Function and Operation
1	VCC0			Power supply (3.3V)
2	VSS0			GND
3	TXD2	I/O		SIO2 Transmission data input / output
4	RXD2	I/O		SIO2 Reception data input / output
5	TXD1	0	С	SIO1 Transmission data output
6	RXD1	Ī		SIO1 Reception data input
7	TXD0	0	С	SIO0 Transmission data output
		<u> </u>	C	
8	RXD0	<u> </u>		SIO0 Reception data input
9	SPEED	<u> </u>		SP I/F input
10	ADCSB	0	С	AD I/F output
11	ADSCK	0	С	AD I/F output
12	ADTXD	0	С	AD I/F output
13				AD I/F input
14		l		AD I/F input
15	ADIO0	I/O		AD I/F input / output
16		I/O		AD I/F input / output
17	ADIO2	I/O		AD I/F input / output
18	VCC1			Power supply (3.3V)
19	VSS1			GND
20	PWM	0		PWM signal output
21	PLINT	- i		PLL I/F input
22		Ö	С	PLL I/F output
23		0	C	PLL I/F output
24	PLTX	0	C	PLL I/F output
25	PLRX	- Ŭ	C	PLL I/F input
26	PLIO0	I/O		PLL I/F input / output
	PLIO1			
27		1/0		PLL I/F input / output
28	PLIO2	I/O		PLL I/F input / output
29	DDINT			DARC I/F input
30	DDCE	0	С	DARC I/F output
31	DDSCK	0	С	DARC I/F output
32	DDTX	0	С	DARC I/F output
33	DDRX			DARC I/F input
34	DDIO0	I/O		DARC I/F input / output
35	DDIO1	I/O		DARC I/F input / output
36	DDIO2	I/O		DARC I/F input / output
37	TIOA0	I/O		Parallel input / output
38	TIOA1	I/O		Parallel input / output
39		I/O		Parallel input / output
40		I/O		Parallel input / output
41	VCC2	., 0		Power supply (3.3V)
42				GND
43-53		I/O		Address bus input / output
	VCC3	1/0		Power supply (3.3V)
	VSS3			GND
		1/0		
56-64		I/O		Address bus input / output
65	VCC4			Power supply (3.3V)
66				GND
67-82		I/O		Address bus input / output
83	VCC5			Power supply (3.3V)
84	VSS5			GND
85	WRHB	I/O		Upper data write strobe input / output
86		I/O		Lower data write strobe input / output
87	RDB	I/O		Read data strobe input / output
88	CS2B	I/O		Chip select aria 1 for external storage input / output
89	CS0B	I/O		Chip select aria 0 for ROM input / output
90				Power supply (3.3V)

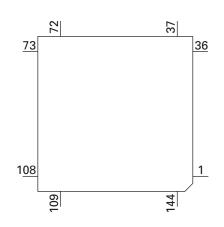
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Pin No.	Pin Name	I/O	Format	Function and Operation
	VSS6	, -		GND
92	TEST2			Test mode
93	CKOEB	ı		CK output enable input
94	CK	0	С	CPU clock output
95	CS5B	0	C	DRAM low address strobe output
96	CS3B	0	С	DRAM column address strobe output
97	CS1B	0	C	DRAM column address upper byte strobe output
98	RTCVSS1	_	-	Power supply (3.3V)
	SRAMB	I		Backup memory select input
	STANBYB	ı		Stand by signal input
	RTCVSS0			GND
		ı		Sub crystal oscillator input (RTC)
	XRTCOUT	0	С	Sub crystal oscillator output (RTC)
	RTCVCC			Power supply (3.3V)
	PCKSEL0	ı		Processor clock select input
106	PCKSEL1	ı		Processor clock select input
107	CCKSEL	ı		CRCK signal select input
	CCKDIR	I/O		Carrier clock direct input / inverter amp output
	CCKVCC	, -		Power supply (3.3V)
	CRCK	ı		Carrier clock input
111	CCKGND			GND
	PC0-6	I/O		Parallel input / output
	NMI			Connect to VCC
120	RESETB	I		System reset input
121	MSTRSTB	- 1		Test reset input
122	TEST0	I		Test mode input
123	TEST1	I		Test mode input
124	REFSEL	I		GPS reference clock select input
125	REFCK	I		Reference clock input
126	VCC7			Power supply (3.3V)
127	VSS7			GND
128	XAUXIN	I		Sub crystal oscillator output input (AUX)
129	XAUXOUT	0	С	Sub crystal oscillator output (AUX)
130-133	PIN0-3	I		Parallel input
134-137	PIO4-7	I/O		Parallel input / output
138	TXD3	I/O		SIO3 Transmission data input / output
139	RXD3	I/O		SIO3 Reception data input / output
140	BOWWOWB	0	С	Watch dog timer output
	IFDIR	I/O		IF direct input / IF inverter amp output
142	IFVCC			Power supply (3.3V)
	IF	ı		IF input
144	IFGND	I		IF amp GND input

PD3390A



Format	Meaning
C	CMOS

AVIC-D3/XU/UC

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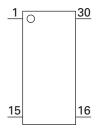
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● Pin Functions(LC72720YVSS1 : EW5)

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Pin No.	Pin Name	I/O	Function and Operation
1	VREF	0	Reference voltage output
2	MPXIN	I	Base band (multiplexed) signal input
3	Vdda		Analog system power supply (+ 5 V)
4	NC		Not used
5	Vssa		Analog system GND
6	FLOUT	0	Sub carrier output (filter output)
7	CIN	I	Sub carrier input (comparator input)
8	NC		Not used
9	T1	I	Test input (connect to GND)
10	T2	I	Test input (stand-by control)
11	T3	0	RDS clock output
12	NC		Not used
13	T4	0	RDS data output
14	T5	0	Soft-decision control data output
15	XOUT	0	Crystal oscillator output
16	XIN	I	Crystal oscillator input
17	Vddd		Digital system power supply (+ 5 V)
18	Vssd		Digital system GND
19	NC		Not used
20	T6	0	Error status,regenerated carrier and error block count outputs
21	T7	0	Error correction status, SK detection and error block count outputs
22	SYNC	0	Block synchronization detection output
23	NC		Not used
24	RDS-ID	0	RDS detection output
25	DO	0	Data output
26	CL	I	Clock input
27	NC		Not used
28	DI	I	Data input
29	CE	I	Chip enable input
30	SYR	I	Synchronization and RAM address reset input

LC72720YVSS1 (EW5)



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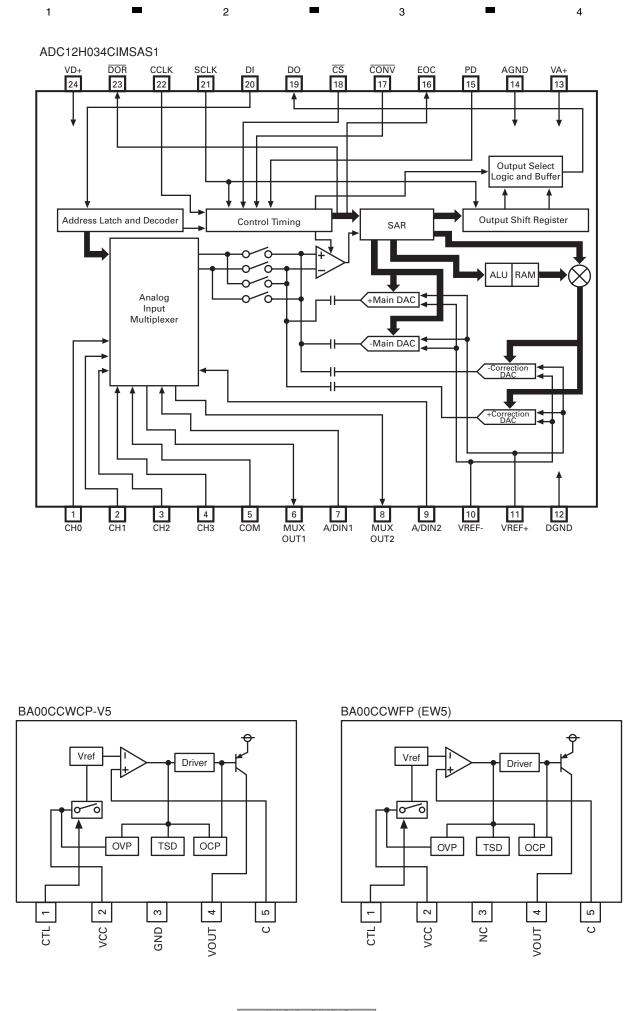
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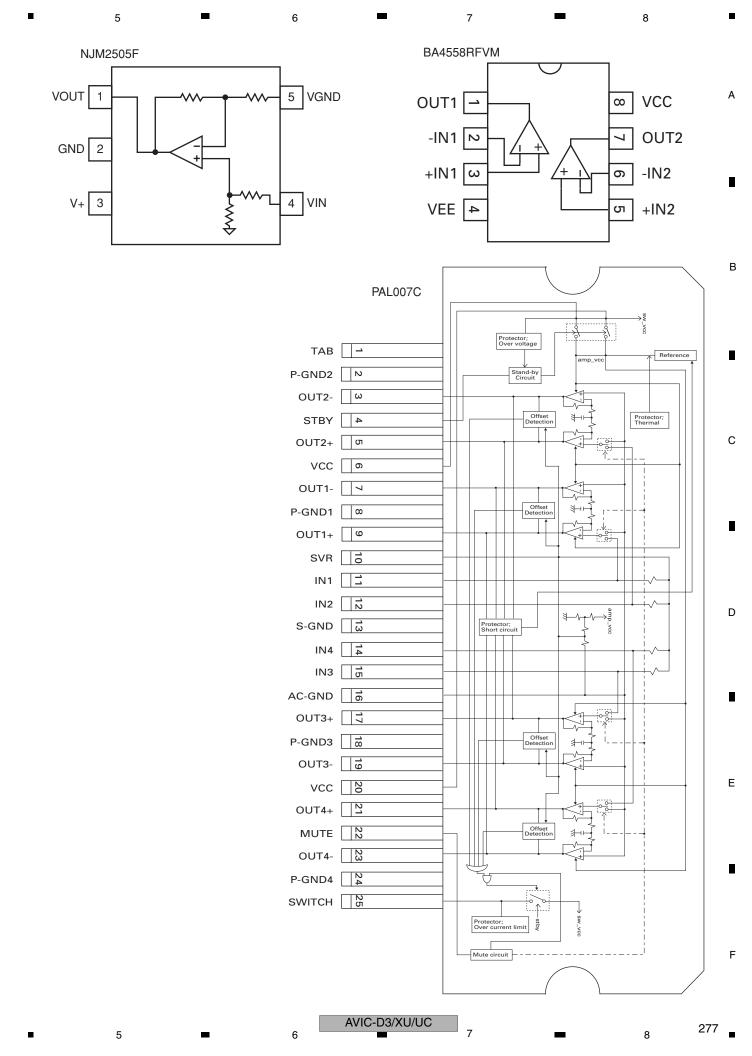
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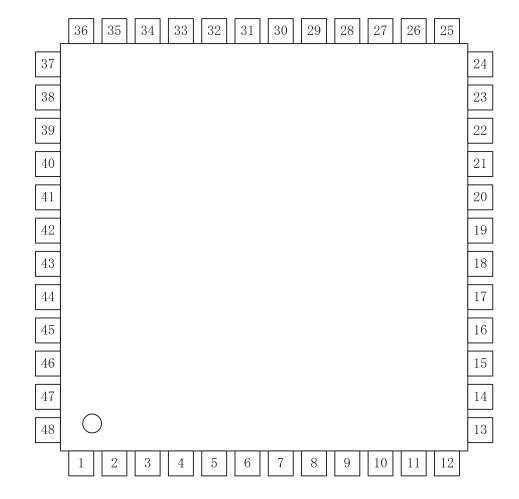
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Pin Arrangement Chart

Pin No.	Pin Name	Pin No.	Pin Name	Pin No.	Pin Name
1	HSY IN	17	GIN2	33	ROUT
2	SYNC OUT	18	RIN2	34	GOUT
3	SYNC IN2	19	HFIL IN	35	BOUT
4	SYNC IN1	20	VIDEO IN	36	Vcc2
5	HFIL OUT	21	AGC FIL	37	COM DC
6	SYNC SW	22	CLP	38	GND3
7	GND1	23	CIN	39	COMOUT
8	F ADJ	24	ACC FIL	40	Vcc3
9	Vcc1	25	TC1	41	COM FRP
10	PSAVE	26	VCO IN(NTSC)	42	FRP
11	SW2	27	VCO OUT (NTSC)	43	BLK IN
12	SW1	28	APC FIL	44	DAC OUT
13	BIN1	29	VCO IN(PAL)	45	NTSC/PAL OUT
14	GIN1	30	VCO OUT (PAL)	46	CLK
15	RIN1	31	GND1	47	DI
16	BIN2	32	GND2	48	CS



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Block Diagram Chart

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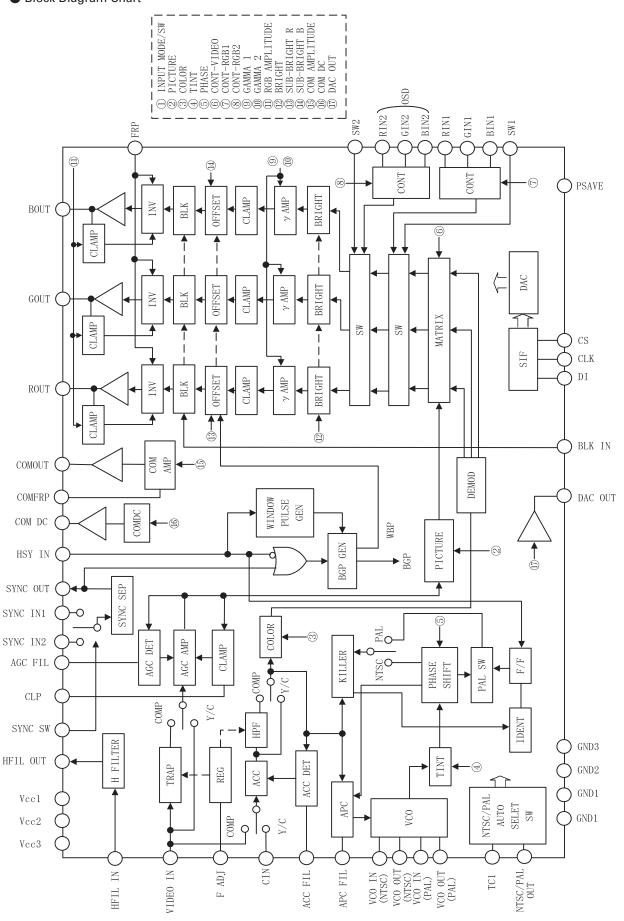
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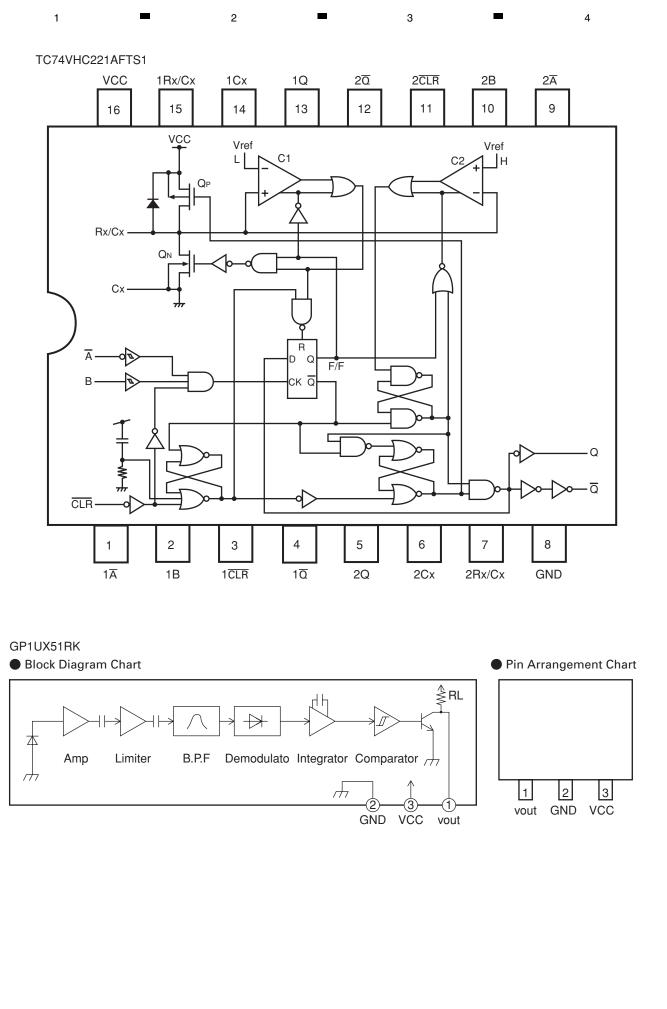
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● Pin Functions (PE5584A)					
Pin No.	Pin Name	I/O	Function and Operation		
1	NC		Not used		
2	PNLADX		Touch panel X directions A/D input		
3	PNLADY	I	Touch panel Y directions A/D input		
4	AVSS		A/D converter GND		
5	DIMMER	0	Dimmer analog output		
6	DOTCLK	+ -	Pixel align		
7	AVREF1		D/A converter standard voltage		
8	RXD	 	Data input from system microcomputer		
9	TXD	0	Data output from system microcomputer		
10	TSCK	1	Test mode clock input		
		<u> </u>			
11	MVIPW	0	Video power control output		
12	LCDDT	I/O	LCD data input/output		
13	LCDCK	0	LCD clock output		
14	LCDCS	0	LCD chip select output		
15	BLKDRV	0	Mute output		
16	OSDTRE		Not used		
17	OSDDT	0	OSD data output		
18	OSDCK	0	OSD clock output		
19	OSDCS	0	OSD chip select output		
20	EPRRST	I	EEPROM data initialization mode input		
21	EPRTEST	I	EEPROM data setting mode input		
22	STEST	† i	The monitor independent mode input for aging		
23	TPTEST	T i	Touch panel test mode input		
24	PNLXV	0	Touch panel X directions power supply control output		
25	PNLYV	0	Touch panel Y directions power supply control output		
26	PNLVD	0	Touch panel power supply control output		
27	RGBSEL	0	RGB/ C. Video select output		
28	PSAVE	0	LCD IC power save output		
29	COLSYS	0	NTSC/PAL detect output		
30	INVBST	0	CCFL current boost output		
31	OSDDIPS	0	OSD display control output		
32	MFLPW	0	Back light power supply control output		
33	VSS1		GND		
34	MODS	0	Screen mode select output		
35	MODW	0	Screen mode select output		
36	MODN	0	Screen mode select output		
37	NC		Not used		
38	ROMDATA	I/O	ROM collection data input/output		
39	ROMCLK	0	ROM collection clock output		
40	ROMCS	0	ROM collection clock output		
41,42	NC	+ -	Not used		
43	FREQSW	0	DC convertor select output		
43	INVPUL	0	Inverter pulse output		
	NC	1	Not used		
45		+ -			
46	EPRDI	1	EEPROM serial data input		
47	EPRDO	0	EEPROM serial data output		
48	EPRCK	0	EEPROM serial clock output		
49	EPRCS	0	EEPROM chip select output		
50	NC		Not used		
51	TESTIN		Chip test input		
52	LEDDT	I/O	LED data input/output		
53	LEDCK	0	LED clock output		
54	LEDCS	0	LED chip select output		
55	PHTEST		PHASE adjustment mode input		
56	PALARI	1	Model type detect input		
57	JUC	T i	Model type detect input		
58	ILMTEST	† i	RGB illumination test mode input		
59	SRVTEST	l i	Adjustment mode input for service		
60	RESET	+	Reset input		
61	REMIN	+	Remote control data input		
nı l		1 1	nemote control data input		

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Pin No.	Pin Name	I/O	Function and Operation
62	VDDSENS	I	EEPROM power supply sense input
63	NC		Not used
64	VSYNC	I	Vertical synchronizing signal input
65,66	NC		Not used
67	VSS0		GND
68	VDD1		Power supply
69	X2		Crystal oscillating element connection
70	X1		Crystal oscillating element connection
71	VPP	I	Flash writing input
72	XT2		Not used
73	XT1		GND
74	VDD0		Power supply
75	AVDD		A/D converter power supply
76	KDT0	1	Analog key data intput
77	KDT1	1	Analog key data intput
78	KDT2	I	Analog key data intput

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Analog key data intput

Temperature detection input

PE5584A

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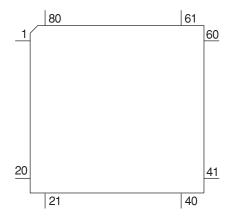
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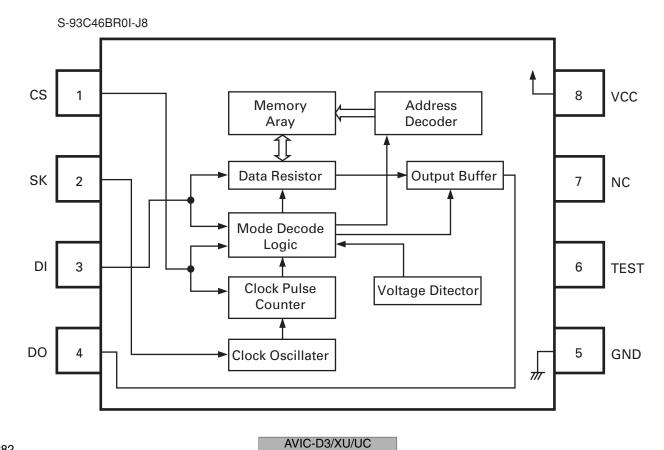
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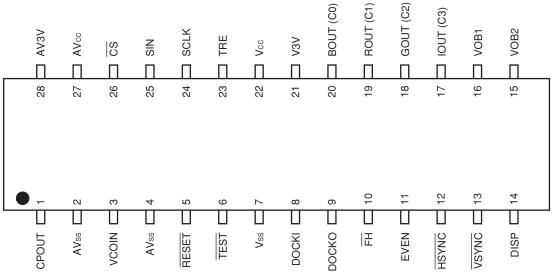
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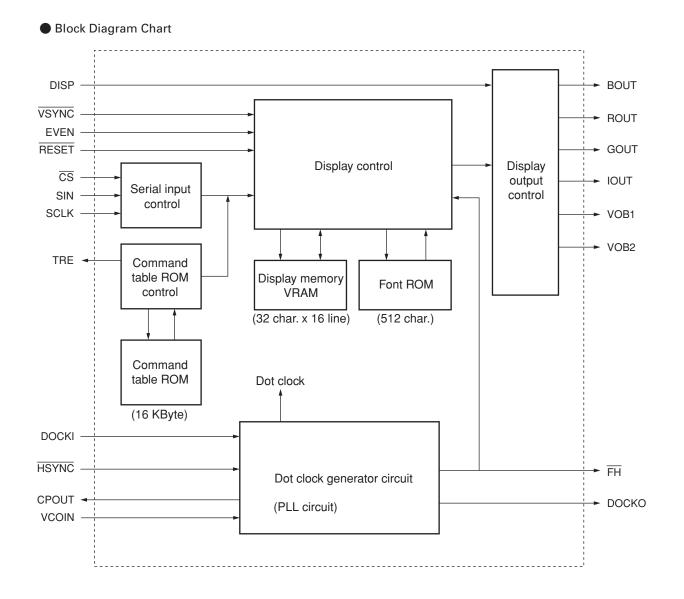
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AVIC-D3/XU/UC

● Pin Functions (LZ9FE30)

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	ctions (LZ9FE30)		
Pin No.	Pin Name	I/O	Function and Operation
1	VIN	I	Vertical synchronizing signal input
2	CVOP	0	Vertical synchronous separation signal output
3	HON_E	0	Test setting output
4	HSY	I/O	Horizontal synchronizing signal input/output
5	VDD1		Power supply
6	FRPT	0	Polarity reversing signal output (common electrode)
7	SYNI	I	Compound synchronous signal input
8	FRPV	0	Polarity reversing signal output (video signal)
9	GND1		GND
10	VCS	0	Normal mode mask signal output
11	NTPC	1/0	NTSC/PAL setting input
12 13	VSY HRVC	I/O	Vertical synchronizing signal input/output
14	VRVC		Horizontal scanning direction setting input Vertical scanning direction setting input
15	CLKC	1	Clock synchronous signal I/O setting input
16	MDS	l l	Display mode setting input
17	GND2	'	GND
18	EXCL	I/O	Clock input/output
19	GND3	1/0	GND
20	MDW	1	Display mode setting input
21	MDN	i	Display mode setting input
22	PWM	0	Backlight control signal output
23	MON F	0	Test setting output
24	VSWC	I	VSWO output control input
25	VSWI	I	Video system switch input
26	VSWO	0	Video system switch output
27	VDD2		Power supply
28	SPOI	I/O	Start signal input/output for source driver
29	GND4		GND
30	PCP	0	Test setting output
31	CLOC	I	EXCL port output mode switch input
32	MOD2	0	Control signal output for gate driver
33	HR	0	Horizontal scanning setting output for source driver
34	IVR	0	Vertical scanning setting output for gate driver
35	PS	0	Control signal output for source driver
36	CTR	0	Control signal output for source driver
37	SPIO	I/O	Start signal input/output for source driver
38 39	PDP PAIR	0	Phase comparison output Pairing setting siganl input
40	MON	0	Test setting output
41	APN	-	Horizontal display position setting input
41	GND5	ı	GND
43	OSCO	0	Clock oscillation circuit output
44	OSCI	Ī	Clock oscillation circuit output
45	VDD3		Power supply
46	GND6		GND
47	CLD	0	Clock signal output for source driver
48	TST1	I	Test setting input
49	RESH	I	Horizontal counter reset input
50	RESV	I	Vertical counter reset input
51	TST2	I	Test setting input
52	TEST	Ι	Test setting input
53	MON_A	0	Test setting output
54	TPC	0	Touch panel control signal output
55	MON_C	0	Test setting output
56	MON_D	0	Test setting output
57	CLS	0	Clock signal output for gate driver
58	SPS	0	Reset signal output for gate driver
59	VR	0	Scanning setting output for gate driver
60	MOD1	0	Control signal output for gate driver
61	TCLK	I	Test setting input
62	GND7		GND
63	GND8		GND

AVIC-D3/XU/UC

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Pin No.	Pin Name	I/O	Function and Operation
64	GPS	0	Signal output for gate power supply
65	LOWI		Control signal input for gate driver
66	ABC	I	Output setting input
67	VDC		Power supply
68	GND9		GND
69	DVTC	0	Test setting output
70	BLKI	I	Screen position adjustment input
71	BLKO	0	Screen position adjustment output
72	SYNO	0	Compound synchronous signal output

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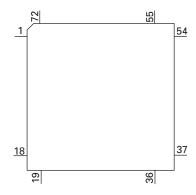
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AVIC-D3/XU/UC

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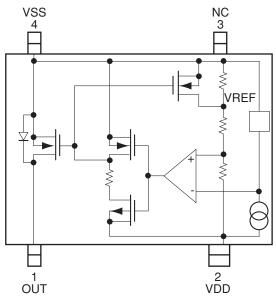
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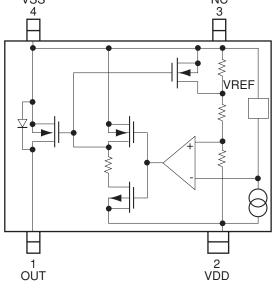
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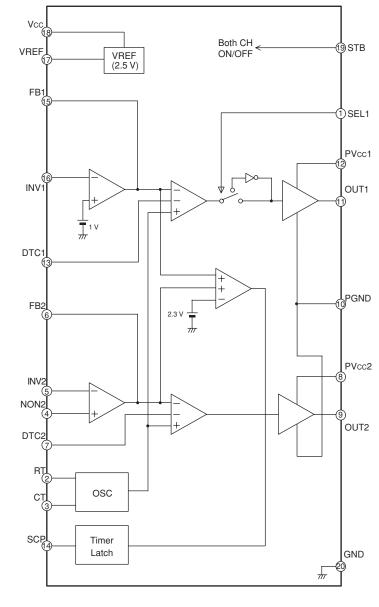
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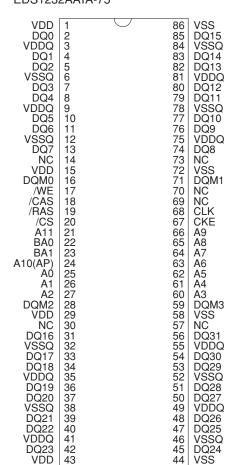
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EDS1232AATA-75



Pin Layout

SEL1 □1		⊐ GND
RT □2	<u> </u>	□ STB
CT ⊏3	18	□ VCC
NON2 □4	17	□ VREF
INV2 □5	16	⊐ INV1
FB2	15	⊐ FB1
DTC2 🗗 7	14	□ SCP
PVCC2 ☐8	13	□ DTC1
OUT2 🛮 9	12	□ PVCC1
PGND -10) 11	□ OUT1

A0 to A11
BA0.BA1
- /
DQ0 to DQ31
/CS
/RAS
/CAS
/WE

Address Inputs	
Bank select	
Data Input/output	
Chip select	
Row address atrobe	
Column address strobe	
Write enable	

DQM01	to	DQM:
CKE		
CLK		
VDD		
VSS		
VDDQ		
VSSQ		
NC		

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DQ mask enable Clock enable Clock Input Supply voltage Ground Supply voltage for DQ Ground for DQ No connection

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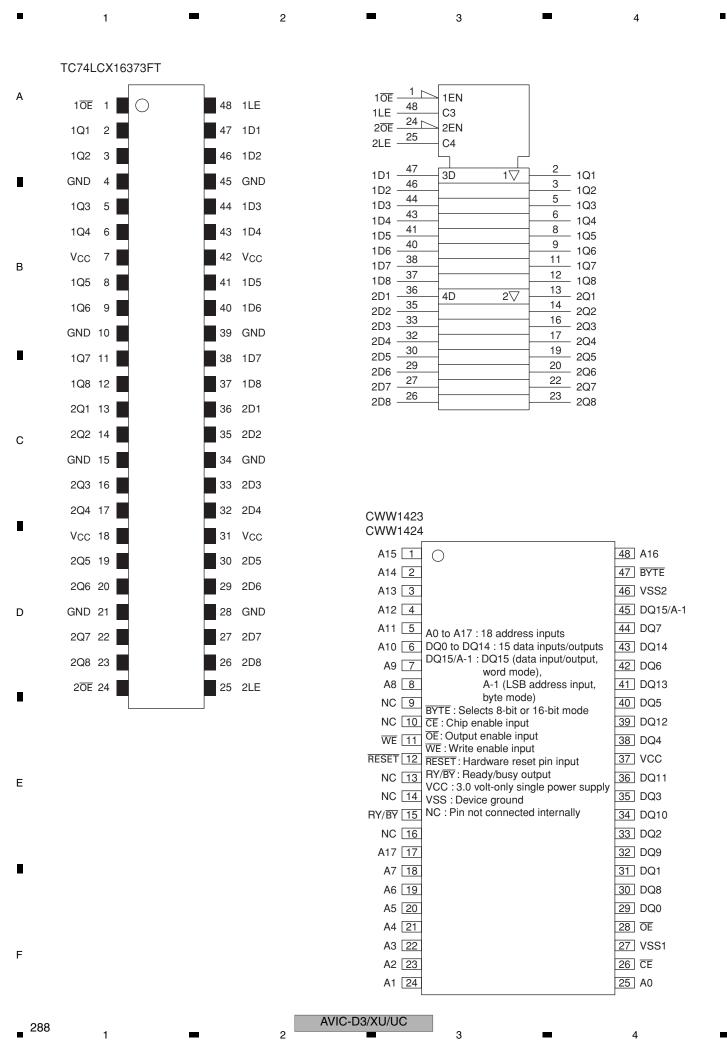
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MN2DS0016 0SC1 0SC0 0SC0 0D033-9 AVD042-5 AVD06 AVD0 VREF COMP1 AVDDF 193 193 MASTER 194 NRESET 195 HDD7 HDD8 HDD6 198 VSS_11 DVDMP AVSSB 127 VREFL5 125 AVDDB 124 VIN1AF 123 199 VDD33_11 VIN2AF 199 VDD33_2
200 HDD9
201 HDD6
202 HDD10
203 HDD14
204 HDD11
205 HDD3
206 HDD12
207 HDD2
208 VSS_12
209 VDD32 VINSAF VIN4RF 119 118 VINSRE RFINP RFINN 116 CDATA 115 CCAPA 114 IREFRF 113 209 VDD12_7 210___VDD33_12 ANAMONI2 111 211 HDD13
212 HDD1
213 HDD14
214 HDD0
215 HDD15
216 DM400 ANAMONI1 110 AVSSC 109 VREFL7 108 VREFH7 107 AVSSD 106 PLFIL1 105 AVDDD 104 216 DMARQ 217 NIOWR 218 NIORD 219 IORDY VDD12_4 103 VDD33_8 102 220 VSS_13 NAST 101 VSS_8 100 222 NDMACK 223 INTRQ 224 DA1 FG 29 E 28 HOME MD DRV2 DRV3 DRV3 CLAMP 225 NPDIAG 226 DA0
227 DA2
228 NCS1FX
229 NCS3FX
230 NDASP CLAMP LOADIN 93 PO 95 SDODAC 95 231 VDD33_14 SCKDAC 90 IRQPWR 29 232 MCKI 233 VSS_14 VSENCE BB 234 MCK AMUTE BZ BMUTE 85 CONT2 85 CONT1 84 VDD33_7 83 235 VDD33 15 236 MDQ15 236 MDQ15
237 MDQ0
238 MDQ14
239 MDQ14
240 MDQ13
241 MDQ2
242 MDQ12
243 MDQ3
244 MDQ11
245 VSS_18 VDD12_3 82 VSS_7 81 HOSTCMD 80 SLVSTS 79 STANDBY 78 STANDBY XCSSR 77 RIPP 76 VSS_15 246 VDD12_6 EMPH 75 247___VDD33_16 247 VDD33248 MDQ4
249 MDQ10
250 MDQ5
251 MDQ9
252 MDQ6
253 MDQ8
254 MDQ7
255 DQM0
256 DQM1 EXADT1 70 EXADT2 FXADT3 71 EXADT4 EXADT4 EXADT5 EXADT6 EXADT6 EXADT7 57 ADR17 65 ADR18 SECON EXDT11 EXDT4 EXDT12 EXDT6 EXDT6 EXDT6 EXDT6 VSS VDD GND Servo AD input GND
Power supply
SDRAM write enable
SDRAM Column address strobe
SDRAM low address strobe
SDRAM chip select
SDRAM address
SDRAM bank address
SDRAM bank address Tracking (Focus) drive output RGB analog signal PWM 0 NWE DACOUT 0000 DAC stabilization connect pin DAC reference input DAC bias current setting pin NCAS COMP VREF NRAS NCSM IREF 1/00/0/0 Resonator output Resonator input MA BA OSCO OSCI Ó SDRAM data mask
SDRAM data mask
External memory data
External memory address
External memory output chip enable
External memory chip select
External memory address DACCK LRCK SRCK ADOUT Audio clock LR chann clock output DQM I/O O O I/O I/O I/O I/O I/O I/O **EXDT** EXADR NEXOE Bit clock output Audio down mix output 1/0 0 0/0 0/0/0 IECOUT TRCST TRCDATA NEXCE EXADT Digital audio output
Output trace status for debugging Output trace data for debugging
Output trace clock for debugging
I/O trigger for debugging
Data for debugging External memory write enable NEXWE General port TRCCLK EXTRG DRV Servo port Motor FG SDATA SCLOCK FG NRST Input clock for debugging
ATAPI master slave signal input
ATAPI reset input signal Master reset 1 Analog power supply Connect for DRC-VCO AVDD PLFIL MASTER NRESET I/O 0 AIAPI reset input signal
ATAPI I/O data
ATAPI host DMA request output
ATAPI host write signal
ATAPI host read signal
ATAPI host ready output
ATAPI host DMA acnorigge input
ATAPI host interrupt output
ATAPI host address
ATAPI diagnosis signal AVSS VREFH HDD DMARQ Analog GND I/O I/O I/O I/O I/O I/O I/O Analog GND
ADC reference voltage for DRC(TOP)
ADC reference voltage for DRC(BTM)
Analog monitor
Reference voltage
Inline capa connect 000 VREFL ANAMONI NIOWR NIORD IREFRE IORDY CCAPA 00 NDAMCK Inline data connect External RF input External RF input CDATA **INTRQ** DA NPDIAG ATAPI diagnosis signal ATAPI host chip select input SDRAM input clock RFINP VINRF RF input DVD/CD LPC input LPC LPCO MCKI MCK MDQ DVD/CD LPC output 000 SDRAM clock Ó SDRAM data VHALE I/O Reference voltage

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AVIC-D3/XU/UC

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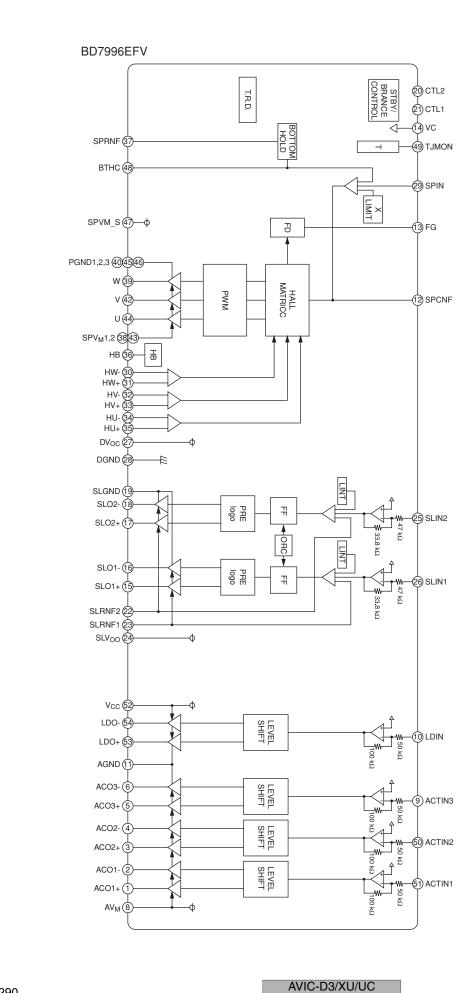
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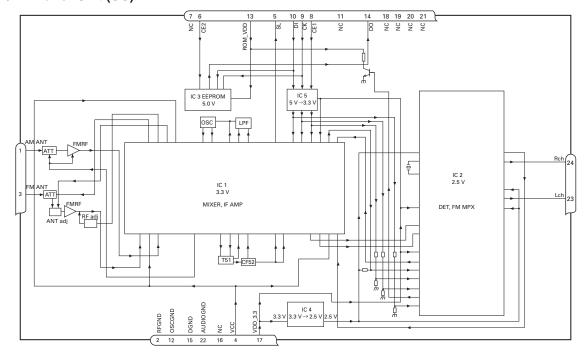
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● FM/AM Tuner Unit (UC)

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No.	Symbol	I/O	Explain		
1	AMANT	ı	AM antenna input	AM antenna input high impedance AMANT pin is connected with	
				an all antenna by way of 4.7 μH. (LAU type inductor)A series circuit	
				including an inductor and a resistor is connected with RF ground for	
				the countermeasure against the hum of power transmission line.	
2	RFGND		RF ground	Ground of antenna block	
3	FMANT	- 1	FM antenna input	Input of FM antenna 75 Ω Surge absorber(DSP-201M-S00B) is necessary.	
4	VCC		power supply	The power supply for analog block. D.C 8.4 $V\pm$ 0.3 V	
5	SL	0	signal level	Output of FM/AM signals level	
6	CE2	- 1	chip enable-2	Chip enable for EEPROM "Low" active	
7	NC		non connection	Not used	
8	CE1	ı	chip enable-1	Chip enable for AF•RF "High" active	
9	СК	- 1	clock	Clock	
10	DI	ı	data in	Data input	
11	NC		non connection	Not used	
12	OSCGND		osc ground	Ground of oscillator block	
13	ROM_VDD		power supply	Power supply for EEPROM pin 13 is connected with a power supply of	
				micro computer.	
14	DO	0	data out	Data output	
15	DGND		digital ground	Ground of digital block	
16	NC		non connection	Not used	
17	VDD_3.3		power supply	The power supply for digital block. 3.3 V \pm 0.2 V	
18	NC		non connection	Not used	
19	NC		non connection	Not used	
20	NC		non connection	Not used	
21	NC		non connection	Not used	
22	AUDIOGND		audio ground	Ground of audio block	
23	Lch	0	L channel output	FM stereo "L-ch" signal output or AM audio output	
24	R ch	0	R channel output	FM stereo "R-ch" signal output or AM audio output	

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● FM/AM Tuner Unit (EW5)

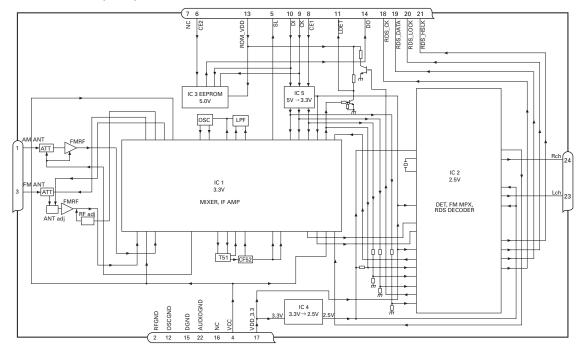
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No.	Symbol	I/O	Explain			
1	AMANT	I	AM antenna input	AM antenna input high impedance AMANT pin is connected with		
				an all antenna by way of 4.7 μH. (LAU type inductor) A series circuit		
				including an inductor and a resistor is connected with RF ground for		
				the countermeasure against the hum of power transmission line.		
2	RFGND		RF ground	Ground of antenna block		
3	FMANT		FM antenna input	Input of FM antenna 75 Ω Surge absorber(DSP-201M-S00B)is necessary.		
4	VCC		power supply	The power supply for analog block. D.C 8.4 V \pm 0.3 V		
5	SL	0	signal level	Output of FM/AM signals level		
6	CE2		chip enable-2	Chip enable for EEPROM "Low" active		
7	NC		non connection	Not used		
8	CE1	ı	chip enable-1	Chip enable for AF•RF "High" active		
9	CK	- 1	clock	Clock		
10	DI	-	data in	Data input		
11	LDET	0	lock detector	"Low" active		
12	OSCGND		osc ground	Ground of oscillator block		
13	ROM_VDD		power supply	Power supply for EEPROM pin 13 is connected with a power supply of		
				micro computer.		
14	DO	0	data out	Data output		
	DGND		digital ground	Ground of digital block		
	NC		non connection	Not used		
	VDD_3.3		power supply	The power supply for digital block. 3.3 V± 0.2 V		
	RDS_CK	0	RDS clock	Output of RDS clock(2.5 V)		
19	RDS_DATA	0	RDS data	Output of RDS data(2.5 V)		
20	RDS_LOCK	Ο	RDS lock	Output unit "High" active(2.5 V) (RDS_LOCK turns over by the		
				external transistor. "Low" active)		
21	RDS_HSLK	Ο	RDS high speed	Output unit "High" active(2.5 V)(RDS_HSLK turns over by the		
			lock	external transistor. "Low" active)		
22	AUDIOGND		audio ground	Ground of audio block		
23	Lch	0	L channel output	FM stereo "L-ch" signal output or AM audio output		
24	R ch	0	R channel output	FM stereo "R-ch" signal output or AM audio output		

AVIC-D3/XU/UC

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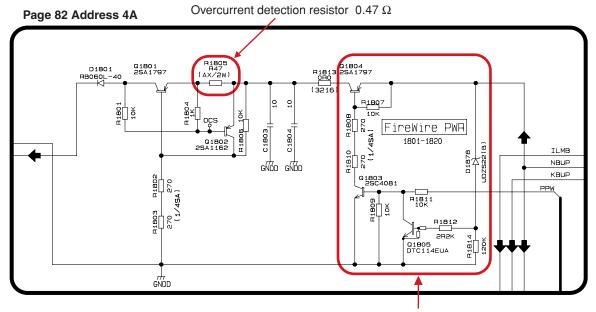
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3 EXPLANATION

FireWire PWR

FireWire: Power supply circuit to supply electricity to iPod.



A popular switch circuit.

When there is an overvoltage, D1878 will be ON and PPW will be dropped down to Low level by force so that the overvoltage will not be applied to the iPod side.

Overcurrent detection mechanism

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- 1. The current exceeding the allowable range flows to the load side (=iPod).
- 2. The difference of electrical potential at both ends of R1805 becomes large exceeding approximately 0.6 V.
- 3. As a result of the difference of potential between the emitter and the base of Q1802, the current starts to flow from the emitter to the base, and the difference of potential between the emitter and the collector becomes almost zero.
- 4. The difference of potential between the emitter and the base of Q1801 no longer exists, and Q1801 will close.
- 5. It is designed in a way that, if the output is grounded, the current will start flowing to Q1802 even before that and that Q1801 will close.

AVIC-D3/XU/UC

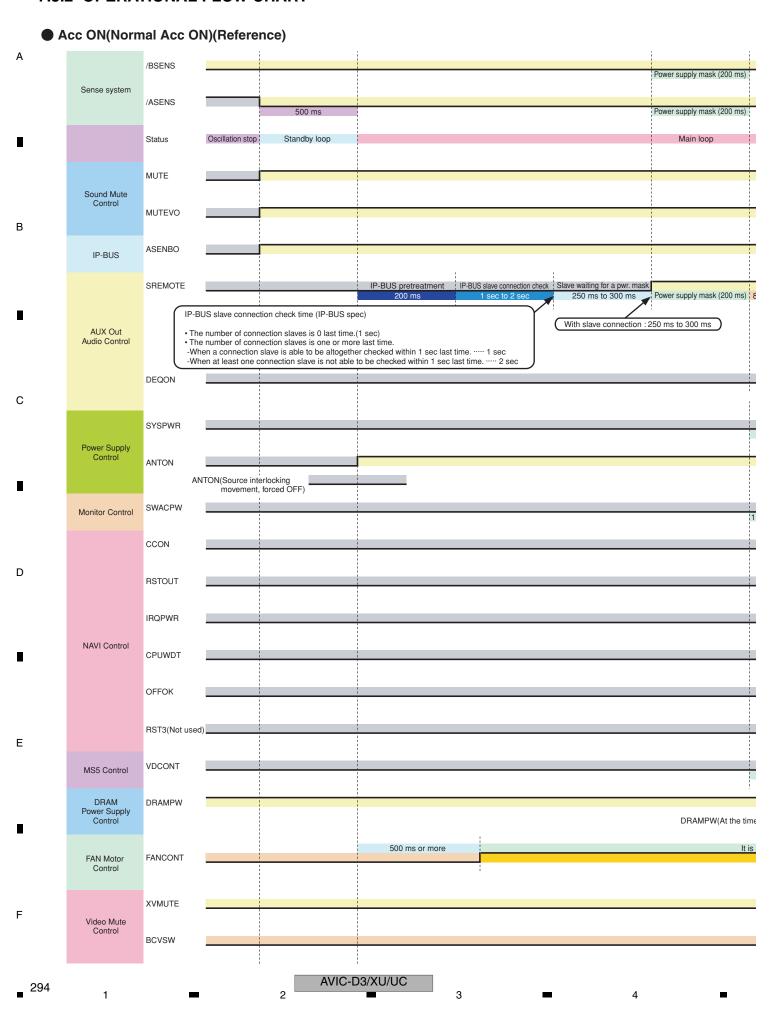
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7.3.2 OPERATIONAL FLOW CHART

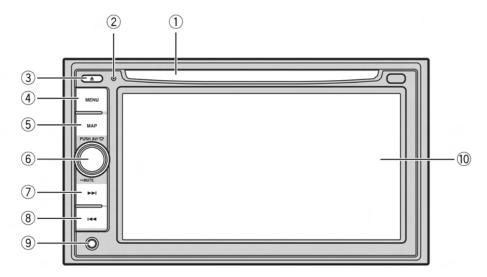




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Navigation unit

This section gives information about the names of the parts and the main features using the buttons.



1 Disc loading slot

С

- ⊃ "Inserting/Ejecting a Disc"
- 2 RESET button
- "Resetting the Microprocessor"
 - **③ EJECT button**
 - 4 MENU button
 - Press to display the navigation menu or audio menu.

(5) MAP button

Press to view the map or change view mode.

6 VOLUME knob

Turn to adjust the AV volume or press to change AV source.

- (7) Fast forward button
- **8** Backward button
- 9 Mini jack

This is the AV-2 input terminal. Use the CD-RM10 (sold separately) to connect the external video component.

10 LCD display

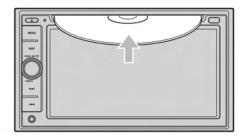
AVIC-D3/XU/UC

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Inserting/Ejecting a Disc

Inserting a disc

1 Insert a disc into the disc loading slot.



- ☐ The DVD drive plays one standard 12-cm or 8-cm (single) disc at a time. Do not use an adapter when playing 8-cm discs.
- Do not insert anything other than a disc into the disc loading slot.
- → "Playable Discs"
- □ If you cannot insert a disc completely or if a inserted disc is not recognized, check that the label side of the disc is up. Also, press the **EJECT** button to eject the disc, and check the disc for damage before inserting the disc again.
- ☐ If the built-in DVD drive does not operate properly, an error message such as Error-02 may be displayed.
- → "Error Messages"

Ejecting a disc

1 Press the EJECT button.

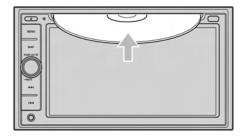
The disc is ejected.

Flow from Startup to Termination

1 Start the engine.

After some time, the navigation opening screen comes on for a few seconds. Then, a message screen is displayed.

2 Insert the Pioneer DVD Map Disc to the disc loading slot.



3 Check the details of the caution message and touch "OK".

You can operate the navigation system by touching keys displayed on the screen. If the route is already set, it changes to route guidance mode. The map of your surroundings is displayed.

- → How to read the current position screen
- ⊃ Setting the time

4 Press the MENU button in the map screen.

Displays the NAVI MENU.

5 Allows you to assign a destination and begin route guidance.



- Specifying the address and searching the destination
- ⊃ Other search methods

6 Turn off the vehicle engine.

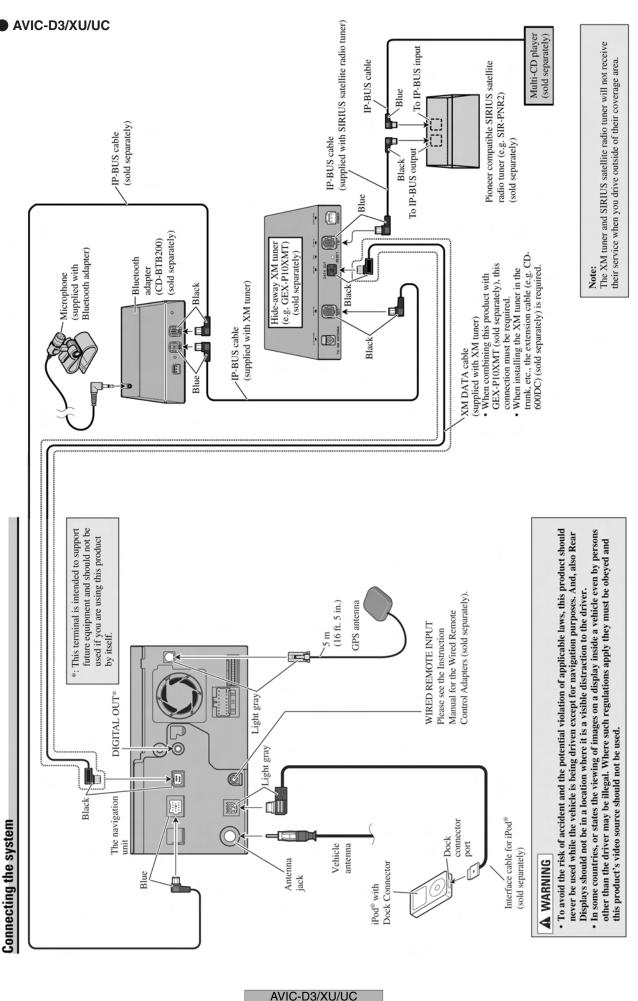
This navigation system is also turned off.

■ Until the vicinity of the destination is reached, the set route will not be deleted even if the engine is turned off.

AVIC-D3/XU/UC

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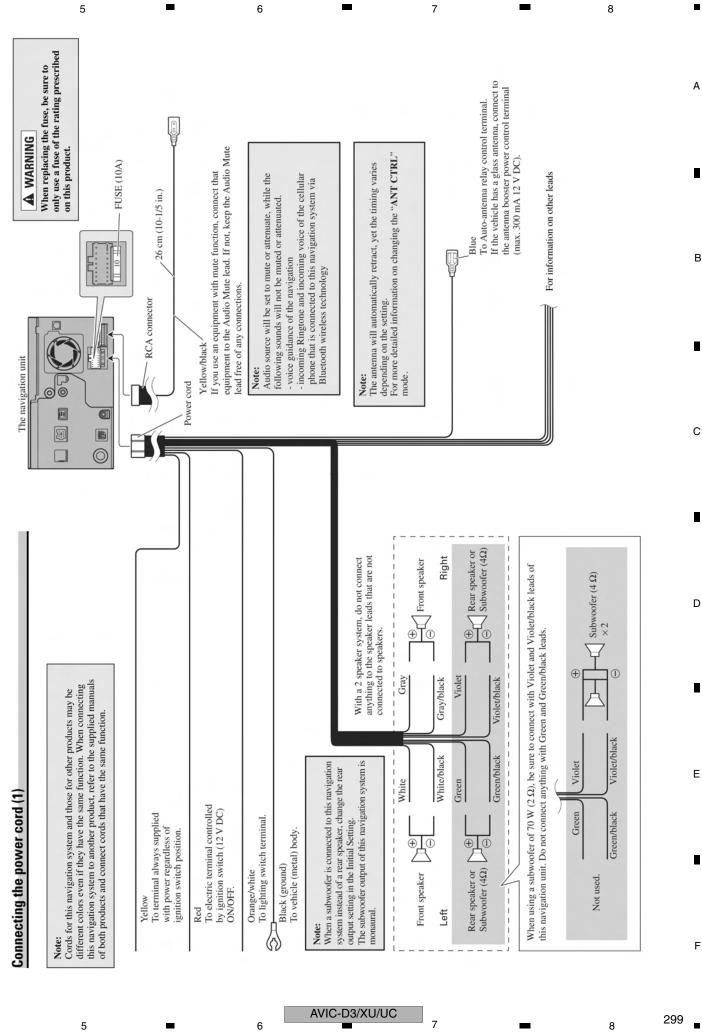
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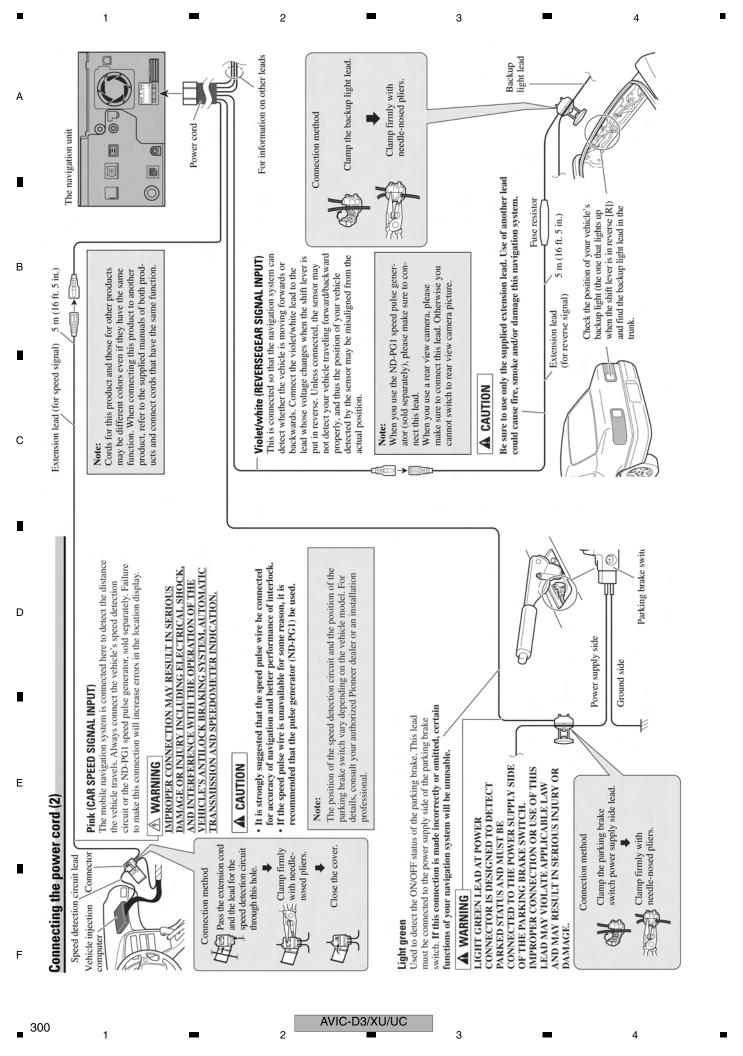
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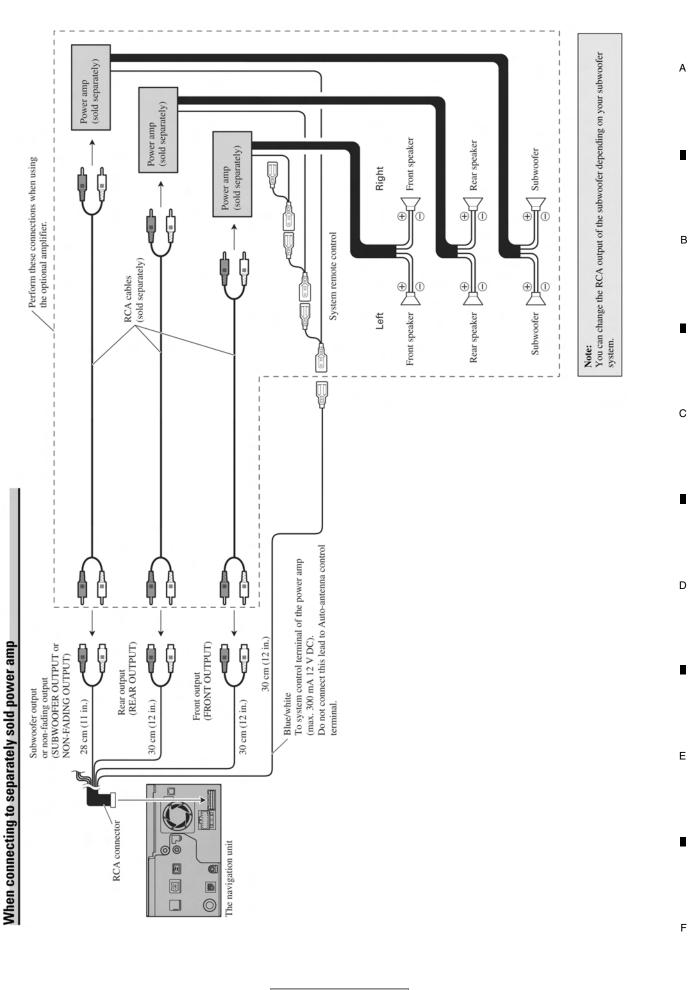
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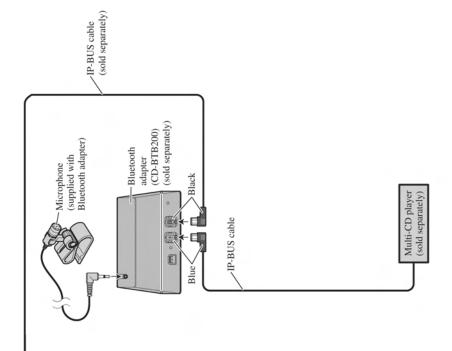
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should never be used while the vehicle is being driven except for navigation purposes. And, also Rear Displays should not be in a location where it is a visible distraction to the driver.

In some countries, the viewing of images on a display inside a vehicle even by persons other than the driver may be illegal. Where such regulations apply they must be obeyed and this product's video source should not be used. Control Adapters (sold separately). Manual for the Wired Remote GPS aerial WIRED REMOTE INPUT Please see the Instruction connector port Interface cable for iPod® (sold separately) - Dock Vehicle aerial **▲** WARNING iPod® with Dock Connector

· To avoid the risk of accident and the potential violation of applicable laws, this product

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*: This terminal is intended to support future equipment and should not be used if you

are using this product by itself.

EXTENSION port
Not used.

DIGITAL OUT*

The navigation unit

Blue

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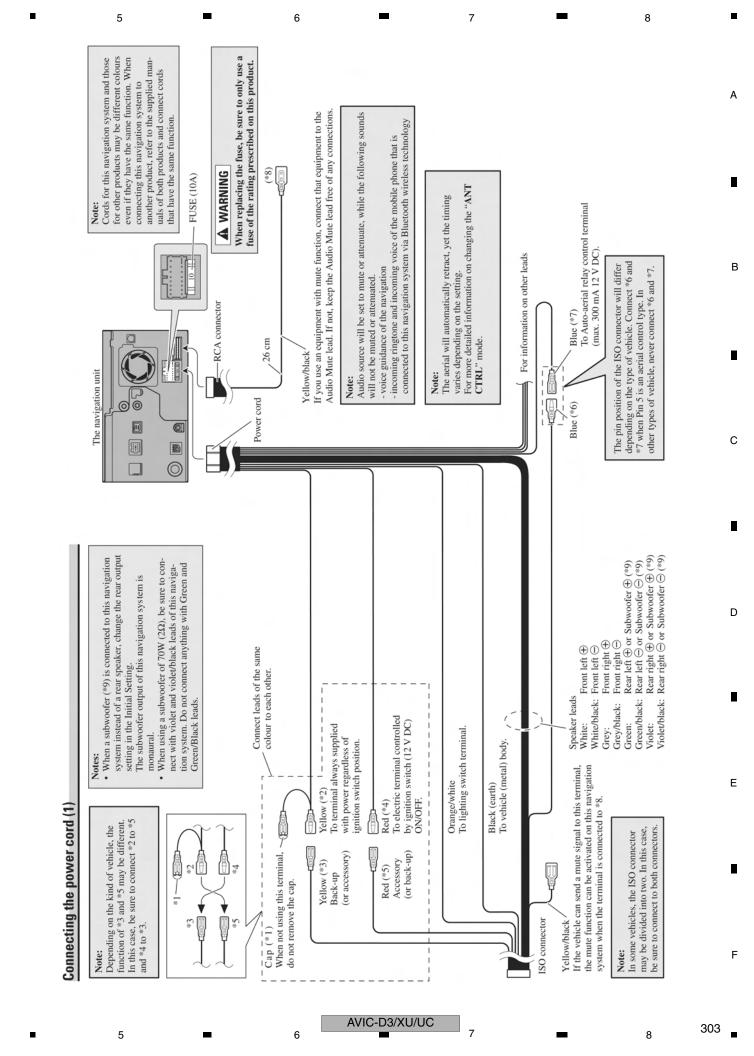
Light grey (

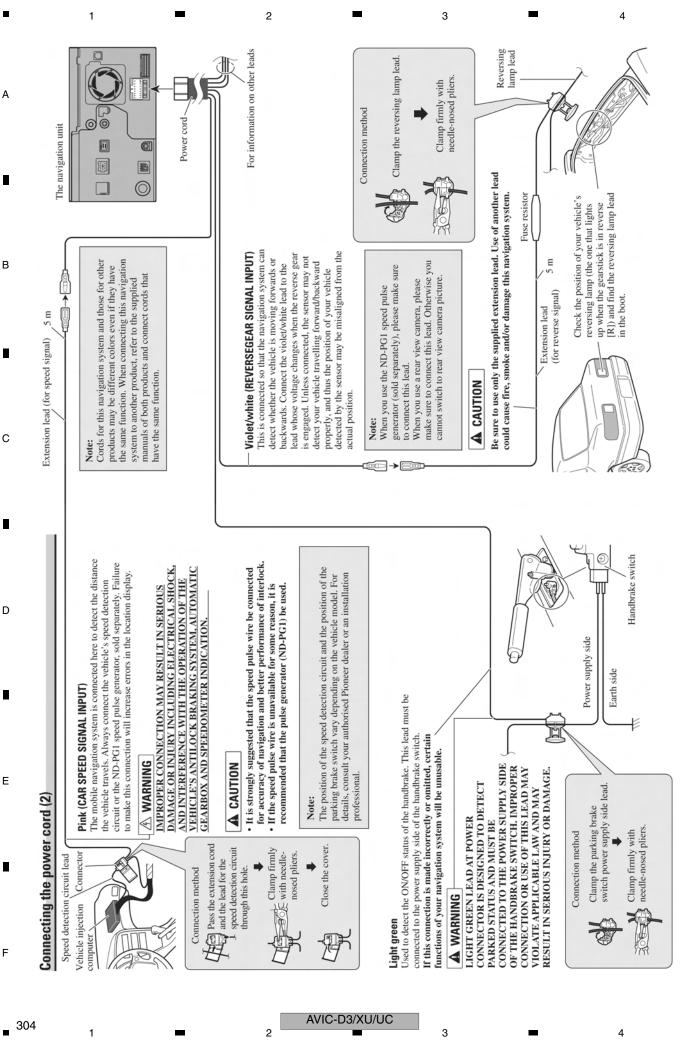
Light grey

Aeriál jack

AVIC-D3/XU/UC

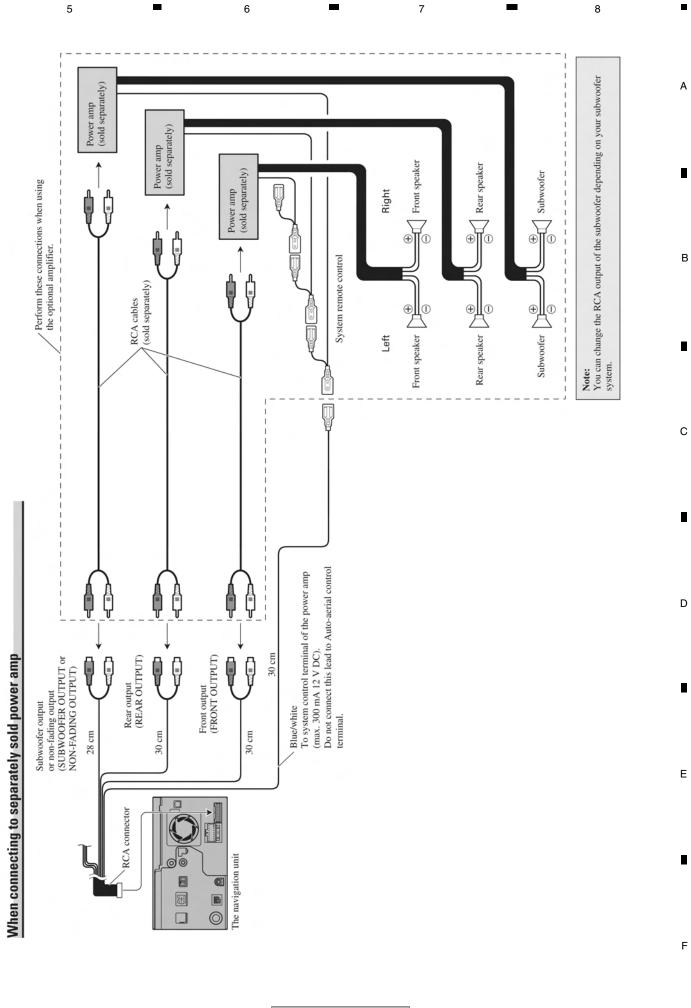
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AVIC-D3/XU/UC

Jigs List

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Name	Jig No.	Remarks
40P FFC BBR	GGD1284	DVD Core Unit (CN2001) <> Navi Mother Unit (CN2)
40P FFC BBR	GGD1284	DVD Core Unit (CN1901) <> Navi Mother Unit (CN2057)
20P Extension Cable	GGD1327	Navi Mother Unit (CN2068) <> AV Unit (CN1652)
80P FPC	GGD1406	Navi Mother Unit (CN2055) <> AV Unit (CN1711)
40P FFC BB	GGD1170	Monitor Unit (CN5001) <> AV Unit (CN1661)
TEST DISC	GGV1303	Operation check
Remote Control Uint	CXC6317	Operation for adjustment
TORX driver (T2)	GGK1095	SKEW adjustment (DVD)
Bond	GEM1033	SKEW adjustment (DVD)
Bond (Produced by THREE BOND)	1401M	SKEW adjustment (DVD)
TEST DISC	GGV1018	SKEW adjustment (DVD)

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Grease List

Name	Grease No.	Remarks
Grease	GEM1024	DVD Mechanism Module
Grease	GEM1043	DVD Mechanism Module
Grease	GEM1045	DVD Mechanism Module
Grease	GEM1050	DVD Mechanism Module

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Before shipping out the product, be sure to clean the following portions by using the prescribed cleaning tools:

Portions to be cleaned	Cleaning tools
DVD pickup lenses	Cleaning liquid: GEM1004 Cleaning paper: GED-008

Portions to be cleaned	Cleaning tools
Fans	Cleaning paper: GED-008

AVIC-D3/XU/UC

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Pioneer sound.vision.soul

Service Manual

ORDER NO. CRT3896

DVD MECHANISM MODULE(MS5)

CX-3212

- This service manual describes the operation of the DVD mechanism module incorporated in models listed in the table below.
- When performing repairs use this manual together with the specific manual for model under repair.

Model	Service manual	DVD Mechanism Module
AVIC-D3/XU/UC	CRT3879	CXK6601
AVIC-D3/XU/EW5		

CONTENTS

1. CIRCUIT DESCRIPTIONS	
2. MECHANISM DESCRIPTIONS	
3 DISASSEMBLY	2/

1. CIRCUIT DESCRIPTIONS

1. Front end section (MN2DS0016AAUB: IC1501)

MN2DS0016AAUB is a 1 chip LSI for DVD-Player. A DVD-Player system can be constructed by connecting this LSI, driver IC, SDRAM, Flash-ROM, Audio-DAC, etc.

This LSI includes a front end (SODC/FE) which executes RF signal processing, servo processing and decode processing, a back end (AV decoder/BE) which executes video decode processing such as MPEG1/MPEG2/JPEG and audio decode processing such as DVD-Audio/Dolby Digital 2/DTS/MP3, and a system controller which controls

The front end section realizes optical head signal computation processing and RF signal processing, digital signal processing (16-8 demodulation, error correction) for DVD-ROM playback according to the DVD specifications, digital signal processing of CD-DA/CD-ROM (error correction), AV decoder transfer, servo control, spindle motor control and seek control.

In the case of MN2DS0016AAUB, the front end servo system waveforms, such as FE, TE and AS, are not observed as in the case of DVD mechanism module (MS4) CX-3183. Please pay attention.

1.1 Analog block (MN2DS0016AAUB : IC1501)

The functions of the analog block are as described below.

- 1. Reference power circuit
- 2. SERVO system/DPD system signal processing circuit Gain switching amplifier and Low Pass Filter (LPF)
- 3. RF signal processing circuit RF adding circuit, circuit to make inline, Variable Gain Amplifier (VGA) circuit
- 4. Laser power control (LPC) circuit
- 5. A/D converter for SERVO (10 bit, DPD system-4ch), PWM

1.1.1 APC circuit

The optical output of the laser diode (LD) has a large negative temperature characteristic.

Therefore, if the LD is driven by a constant current, a constant optical output cannot be obtained.

APC circuit is a circuit to control the current so that the output at the monitor diode (MD) will be constant.

MN2DS0016AAUB includes 2 types of APC circuit, one for DVD and the other for CD.

The LD current can be obtained by dividing the measured voltage between DVDLD1 (CDLD1) and 5 V by 6 Ω $(1.5 \Omega \times 4=6 \Omega)$, in the case of DVD (CD), It will be approximately 50 mA (45 mA) in the case of DVD (CD).

The potential difference between DVDLD1(CDLD1) and 5 V is set to approx. 300 mV(270 mV).

CN1101 1.5 Ω1.5 Ω1.5 Ω1.5 Ω CDLD1 78 LD CDLDO 14 CDMPD 78 MD 1.5 Ω1.5 Ω1.5 Ω1.5 Ω **DVN** Chip DVDLD1 (MN2DS0016AAUB: IC1501) 25 65 LD DVDLD0 15 DVDMPD **PU UNIT**

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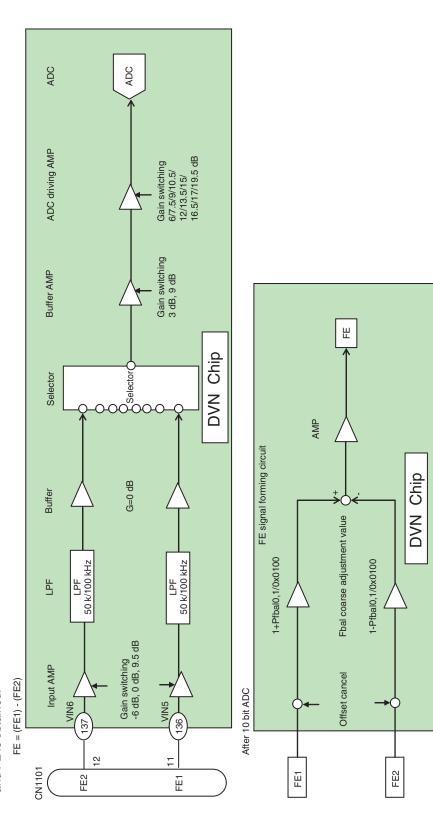
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1.1.2 FE forming circuit Focus error (FE) forming circuit

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The signal from PU, FE1 and FE2, are AD converted inside IC1501 and captured. After that, a differential is obtained by taking the offset cancellation into consideration, and FE is obtained.

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1.1.3 TE forming circuit

racking error (TE) forming circuit

In the case of a CD, 3 beam method is used, and after entering the signal into a variable amplifier for tracking offset adjustment via an external resistor, it is AD converted, In the case of a DVD, the phase difference method is used for TE forming, and the TE is formed from the phase difference among (A+C) and (B+D). and a TE is formed by the equation of $TE=(E+G_E+F)-(F+H_G+H)$.

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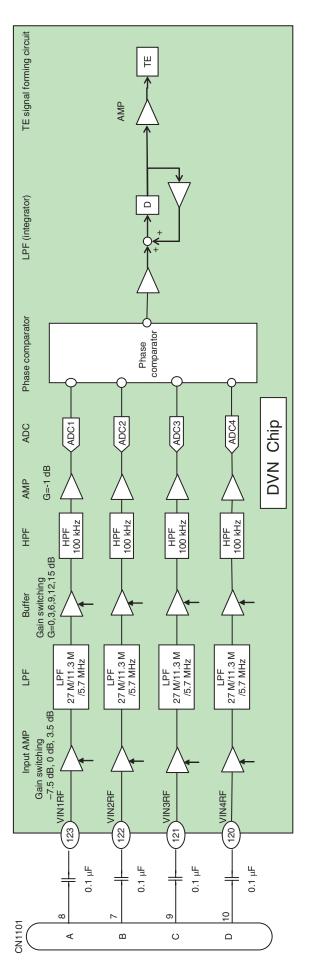
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DVD (phase difference TE)



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Gain switching 3 dB, 9 dB |Selector Q Chip Selector DVN G=0 dB Buffer LPF 50 k/100 kHz LPF 50 k/100 kHz LPF Gain switching -6 dB, 0 dB, 9.5 dB Input AMP VINIO 134 135 F+H_G+H 21 22 E+G_E+F CN1101

· CD (3 beam TE)

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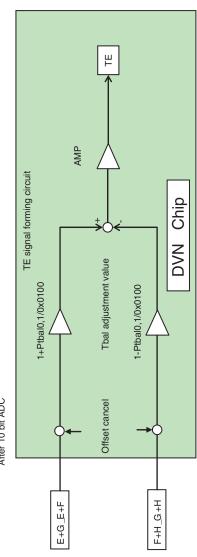
ADC

Gain switching 6/7.5/9/10.5/ 12/13.5/15/ 16.5/17/19.5 dB

ADC

AMP

Buffer AMP



After 10 bit ADC

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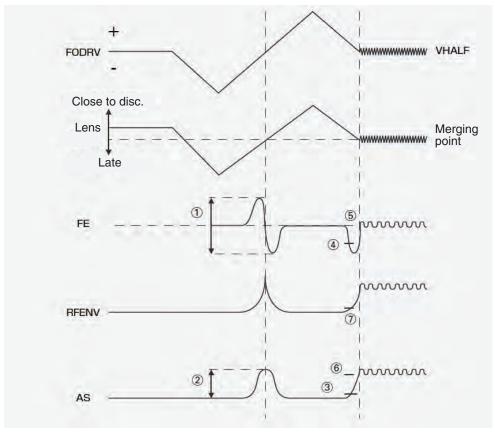
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1.2 Servo block (MN2DS0016AAUB: IC1501)

At the servo block, focusing, tracking, servo control of traverse, spindle motor control and seek control are performed.

1.2.1 Focus close



After issuing the focus close command, both the DVD and the CD will perform the following processing.

- 1. Measurement and optimization of the signal level.
 - First the PU lens is driven in the direction getting away from the disc, then it is driven in the direction getting close to the disc. At this time, each signal level of FE, AS and RFENV are measured at the focused focal point that the lens passes, and the levels of FE and AS are optimized. (1 and 2 in the figure)
- 2. Focus adjustment

Next, after detecting the drawing level of FE and AS by driving the lens away from the disc, the focus loop filter is activated and the focus is drawn. (3~6)

- 3. Confirmation of adjustment
 - Confirm the drawing at the signal level of AS and RFENV. (6, 7)
 - The signal levels of FE, AS and RFENV and the focus drive voltage can be checked by the focus search in the test mode.

1.2.2 Tracking close

After issuing the tracking close command, both the DVD and the CD will perform the following processing.

- 1. Tracking brake
 - 1/2 cycle of the track cross is measured and if the cycle is within the specified range, the brake pulse is output. The output direction of the brake pulse is determined by the phase relationship of the OFTR and the TKC (binary signal of TE) signals. When it is confirmed that the swinging of the lens against the disc has been controlled, braking will be stopped and enters into drawing. If the drawing conditions are not met within 10 msec, after the brake output, the brake will be ended and entered into drawing.
- 2. Tracking adjustment
 - Tracking drive hold processing by the OFTR signal will be performed.
- 3. Confirmation of adjustment
 - Checking is made that the number of track jumps within the specified period of time are at the designated numbers or less. The time out for confirmation of adjustment is 8.4 msec. and retry is performed by the command from the microcomputer.

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In this system, one of the three methods, interval jump, multi jump or traverse seek, is selected depending on the number of target moving tracks.

1. Interval jump

Detailed seek can be performed to execute repeated track jump of 1 track, and it is used when the target track gets close or at the time of seek operation to the adjacent track.

2. Multi jump

Both edges of the track cross signal TKC are counted, and track count move of the designated number is executed. Furthermore, the stepping motor is driven according to the number of jumps.

3 Traverse seek

The stepping motor is controlled by F/W. Track count by TKC is not performed, and the stepping motor is moved according to the number of jumps. In the case of a DVD, seek is performed by maintaining the pick up at the mid point using the mid point servo by the microcomputer.

It indicates the setting for jump switching common to DVD and CD.

Types of target move number of jumps.

DVD

1~10 Interval jump 11~500 Multi jump

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501~878 Combination of multi jump and interval jump

879~1756 Traverse seek (short)

1757~ Traverse seek (long)

CD

1~10 Interval jump

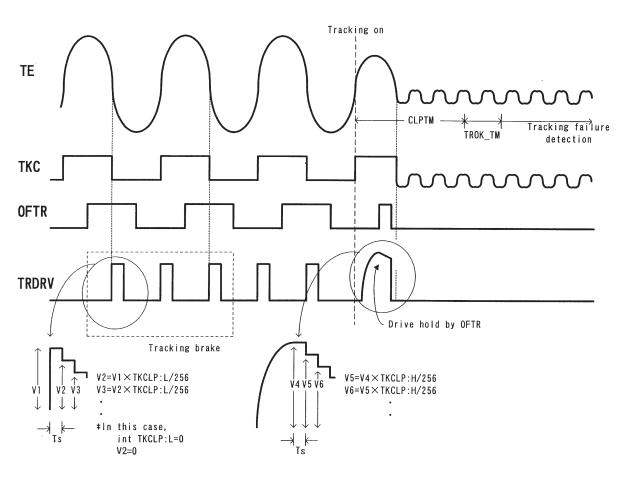
11~400 Multi jump 401~780 Combination of multi jump and interval jump

781~928 Traverse seek (short)

929~ Traverse seek (long)

The waveform of track jump is shown on the next page.

Tracking-on process

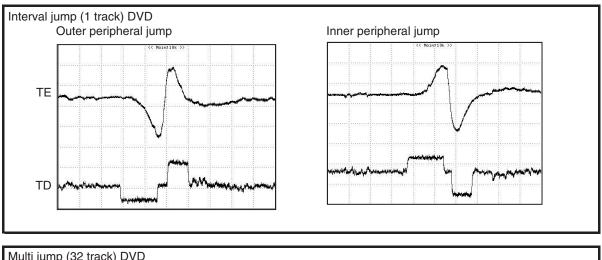


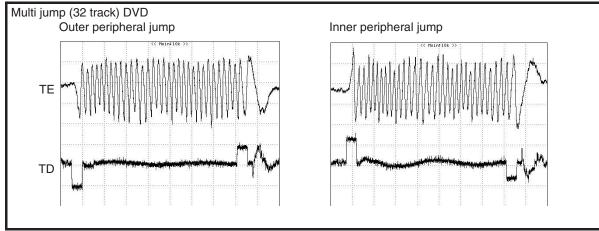
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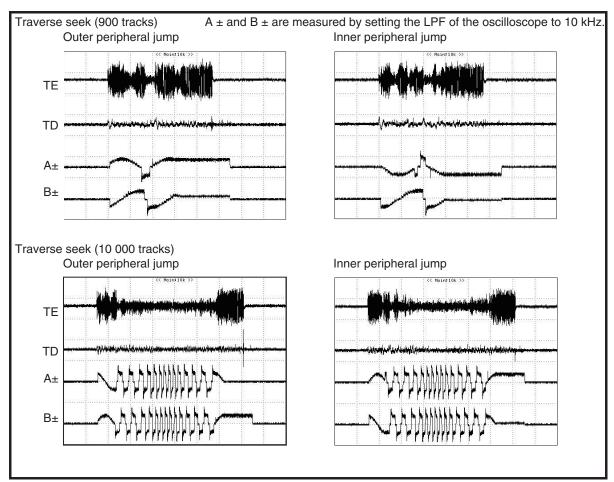
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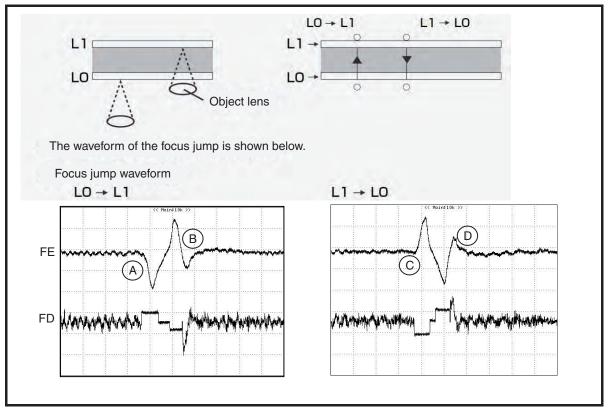
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Focus jump is a function compatible to 2 layers on one side or 2 layers on both sides. Looking from the object lens, the layer close to the lens is called "layer 0" (L0) and the layer away from the lens is called "layer 1" (L1).



The flow of the focus jump is shown below.

- 1. The tracking is opened by the layer being played back.
- 2. A command is issued to execute jump to the target layer.
- 3. The tracking is closed at the layer after the jump and the playback is resumed.

Incidentally, the process when the jump command is issued is as described below.

- The lens is accelerated to the target layer until the FE signal detects the focus jump acceleration end level.
 Acceleration will be ended by force, however, if the time for acceleration timeout has elapsed before detecting the acceleration end level.
- 2. The drive voltage is not output until the FE signal detects the speed reduction start level, and the lens is moved by inertia.
- 3. The lens speed is reduced from detection of the speed reduction start level until detection of the speed reduction end level. Speed reduction will be ended by force, however, if the time for speed reduction timeout has elapsed before detecting the speed reduction end level.

1.3 Auto adjustment function

All circuit adjustments are automated in this system.

Details of each auto adjustment are explained below.

1.3.1 VIN1, VIN2, VIN3, VIN4, VIN5, VIN6, VIN9, VIN10 offset cancel

Each signal from VIN1~6, 9 and 10 output by PU is converted to a digital signal by the AD converter in the servo block. Offset cancel is a function to cancel input offset of the AD converter at the time of power ON.

1.3.2 VCO gain adjustment (VARI adjustment)

It has a function to absorb variation of VCO gain among individual LSI by learning so that auto adjustment is made to maintain the VCO gain at a certain level. VCO is locked against the reference frequency for learning.

And, a frequency control value (FCNT) is read, and VARI register is adjusted so that the read value becomes the same as the target FCNT value.

1.3.3 FE normalization adjustment

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FE signal level measured at the time of focus close is adjusted so that it will become 190LSB at the digital equalizer input stage.

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1.3.4 Tracking balance (TBAL) adjustment

At the time of focus close and tracking open, the lens is oscillated in the track direction and the balanced point where the DC offset becomes zero is searched and adjusted by using the Newton-Raphson method.

1.3.5 Learning of tracking error amplitude

At the time of focus close and tracking open, the lens is oscillated in the track direction and adjusted so that the TE amplitude level becomes 190 LSB at the digital equalizer input stage.

1.3.6 OFTR adjustment

The binary threshold level is adjusted to make the OFTR signal into a binary digit.

1.3.7 RF gain adjustment

The gain setting is adjusted by the VGA value in order to set the gain setting of the RF forming circuit to an optimum one according to the PU output.

1.3.8 Focus balance (FBAL) adjustment

The focus position is adjusted so that the RFENV will be the maximum at the time of focus close \cdot tracking open and tracking close.

1.3.9 Focus gain adjustment, tracking gain adjustment

At the time of tracking close, a disturbance is entered into the servo loop to adjust to the target gain intersection.

1.3.10 AS normalization adjustment

The AS signal level is measured for the designated number of samples at the time of track closing, and after A/D conversion at the ADSC, it is fine adjusted to become 64 LSB at the digital equalizer input stage.

All auto adjustments can be confirmed by displaying the adjustment result in the test mode. The list of auto adjustment coefficient

State	Coefficient	DVD	CD
	VIN1 offset	06B7~08CD	-
	VIN2 offset	06B7~08CD	-
	VIN3 offset	06B7~08CD	-
	VIN4 offset	06B7~08CD	-
	VIN5 offset	06B7~08CD	06E1~08A3
	VIN6 offset	06B7~08CD	06E1~08A3
	VIN9 offset	-	06B7~08CD
Power ON	VIN10 offset	-	06B7~08CD
	FE MAX	0E48~36CD	13A5~469A
	FE MIN	C933~F1B8	B966~EC5B
	AS MAX	037B~1BD9	0978~3DDC
F close	FE normalization	01DD~05B4	016A~045B
	TE MAX	1518~47E0	0337~381A
	TE MIN	B820~EAE8	C7E6~FCC9
F close (after TBAL)	TE normalization	017C~0320	0230~08AF
	F gain	0100~0400	←
	T gain	0100~0400	←
T close	AS normalization	024C~125F	0168~0399

Note) Coefficient values are indicated in hexadecimals. In all cases, specifications at the production line are described. For discs, TDV-582 is used for DVD and TCD-792 is used for CD.

1.4 CIRC block (MN2DS0016AAUB : IC1501)

The CIRC block includes the digital signal processing function (EFM modulation and error correction) of CD-DA and CD-ROM and the digital servo processing function of the spindle motor.

1.5 DRC block (MN2DS0016AAUB : IC1501)

The digital read channel (DRC) is equipped with A/D converter, digital equalizer (DEQ), Adaptive filter, Viterbi detector, digital PLL circuit, RISC interface and periphery circuits for reading of signal on optical disc.

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1.6 ATAPI I/F(MS5 base model)

[Outline]

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The ATAPI interface is a ATAPI protocol control circuit compatible to ATA/ATAPI-5.

The register of the control section can be directly accessed from the system controller, and the data transfer is made via the SODC internal bus.

ATAPI interface

* When viewed from | DVD-LSI.

Signal Name	Bits	I/O	Description	
HDD[15:0]	16	I/O	ATAPI data input/output	
NCS[1:0]	2	I	ATAPI host chip select	
DA[2:0]	3	I	ATAPI host address	
NIORD	1	I	ATAPI host data read out	
NIOWR	1	I	ATAPI host data write	
IORDY	1	0	ATAPI host ready output	
DMARQ	1	0	DMA request to ATAPI host	
NDMACK	1	I	DMA response from ATAPI host	
INTRQ	1	0	Interrupt request to ATAPI host	
NDASP]	1	0	ATAPI drive information	
NPDIAG	1	0	ATAPI slave ⋅ master diagnosis	
NRESET	1	I	ATAPI host hard reset	
MASTER	1	I	ATAPI slave ⋅ master selection	

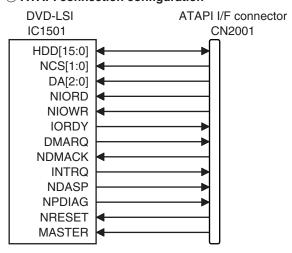
ATAPI specifications

• Compatible transfer mode

PIO	mode 0 to 4
Single word DMA	mode 0 to 2
Multi word DMA	mode 0 to 2
Ultra DMA	mode 0 to 4

- 64 Byte data FIFO for host I/F is built-in.
- Auto capturing function of ATAPI command packet is built-in.
- Master slave compatible

• ATAPI connection configuration



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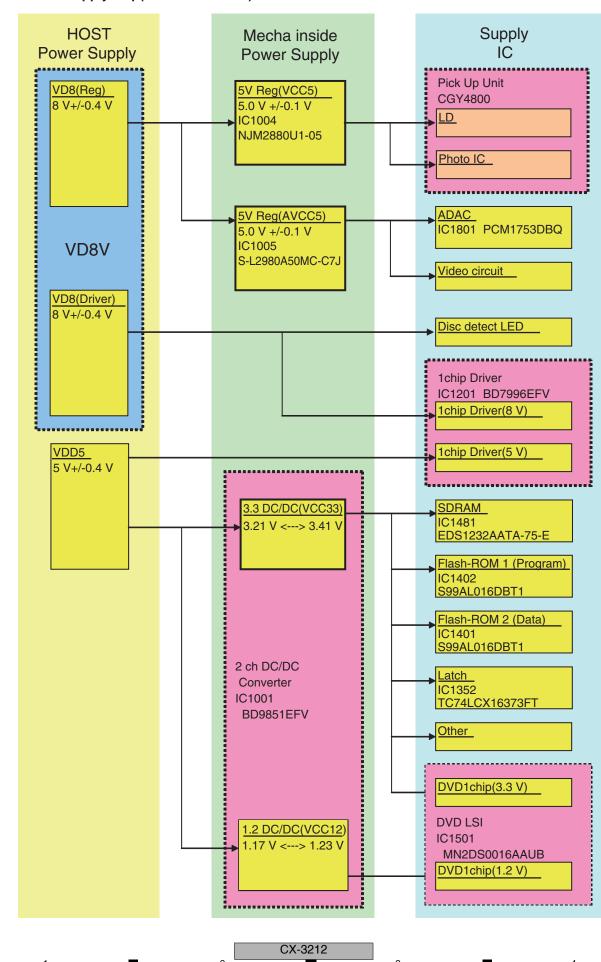
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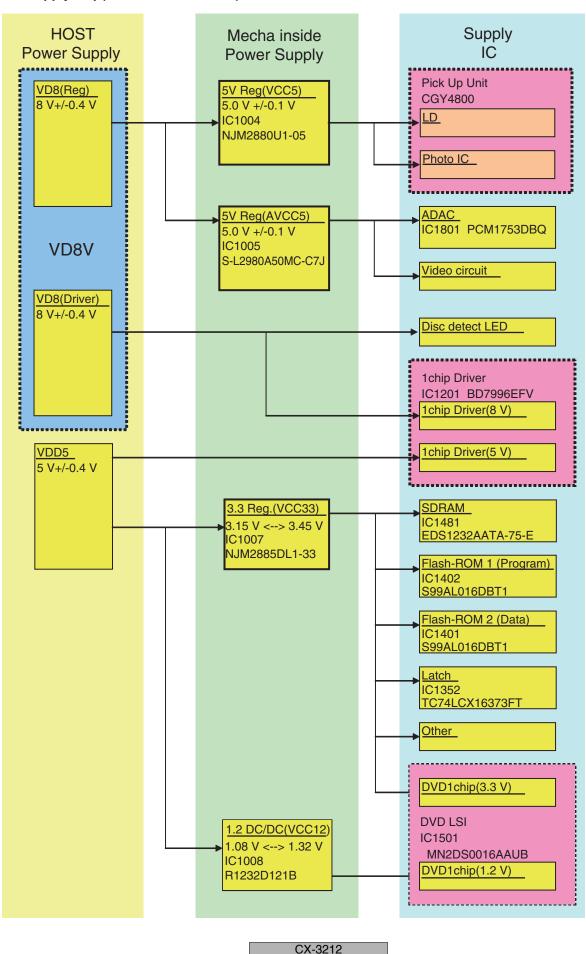
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1.7 Power Supply Map(MS5 base model)



Power Supply Map(MS5AV code2 model)

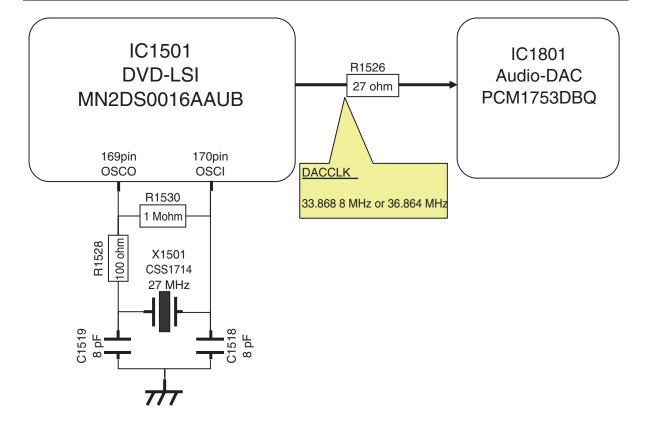


1.8 Clock circuit

[Outline

Α

By connecting a 27 MHz crystal oscillator to DVD-LSI (IC1501), DACCLK for externally connected Audio-DAC is formed and supplied by the clock generator inside the DVD-LSI in addition to the clock used inside the LSI.



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1.9 Audio circuit

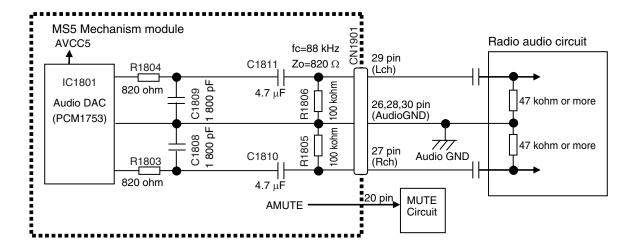
5

[Outline]

- 1 Analog audio signal
 - Serial 3 line digital output + DACCLK (audio clock) output from DVD-LSI (IC1501) are converted to analog audio signal by Audio-DAC (IC1801), and are output from HOST IF connector (CN1901). Furthermore, analog MUTE signal is also output from DVD-LSI (IC1501) via HOST IF connector (CN1901) simultaneously.
- ② Digital audio signal (IEC60958/IEC61937)
 Digital audio signal (IEC60958/IEC61937), output from DVD-LSI (IC1501), is output via Multi-ch/Ripping
 IF connector (CN1851).
- ③ Digital multi-channel audio serial signal Serial 6 line output from DVD-LSI (IC1501) is output via Multi-ch/Ripping IF connector (CN1851).
- 4 CD-DA ripping signal
 Serial 3 line signal output + SUB-CODE signal, output from DVD-LSI (IC1501), are output in 4 times speed via Multi-ch/Ripping IF connector (CN1851).

[Analog audio signal]

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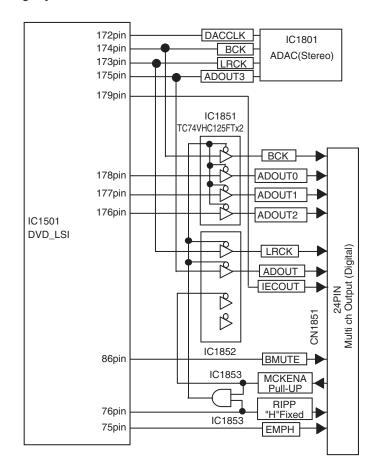
[Digital audio signal]

Α

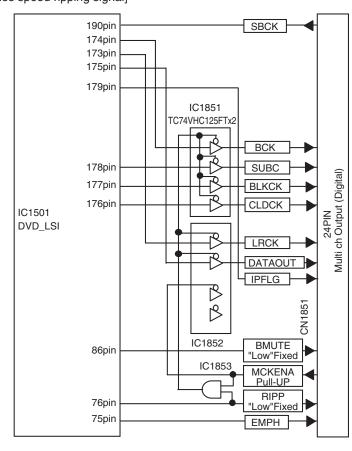
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[CD-DA 4 times speed ripping signal]



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1.10 Video circuit

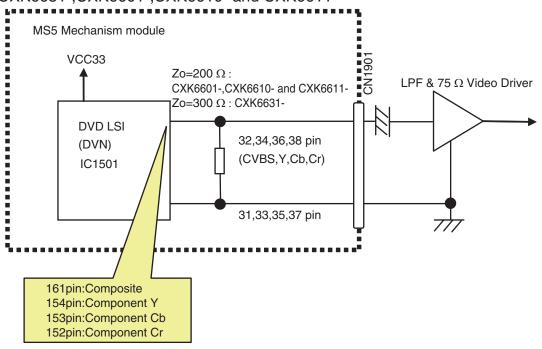
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[Outline]

Composite signal and component signal are output from DVD-LSI (IC1501), and output from HOST IF (CN1901). Incidentally, the buffer circuit of MS5AVcode2 model ->

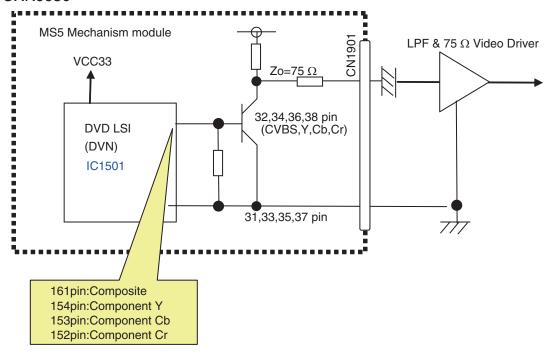
CXK6631-,CXK6601-,CXK6610- and CXK6611-: No Mount, and the output signal from DVD-LSI is output as is. CXK6630-: The buffer circuit is installed.

CXK6631-, CXK6601-, CXK6610- and CXK6611-



CXK6630-

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1.11 SDRAM I/F

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[Outline]

It is a memory for realizing the AV decoding function of DVD-LSI (IC1501). It is used for various purposes such as buffering of stream data before decoding, working area for decoding, and storing of AV data or output data after decoding.

SDRAM interface

* When viewed from | DVD-LSI

Signal Name	Bits	I/O	Description
MDQ[31:0]	32	I/O	Data bus of external SDRAM
MA[11:0]	12	0	SDRAM address
BA[1:0]	2	0	SDRAM bank address
NRAS	1	0	RAS signal of SDRAM
NCAS	1	0	CAS signal of SDRAM
NEW	1	0	Write enable signal of SDRAM
NCS	1	0	Chip select signal of SDRAM
DQM[0]	1	0	Mask signal for writing lower level byte of the lower 2 bytes in SDRAM
DQM[1]	1	0	Mask signal for writing higher level byte of the lower 2 bytes in SDRAM
DQM[2]	1	0	Mask signal for writing lower level byte of the higher level 2 bytes in SDRAM
DQM[3]	1	0	Mask signal for writing higher level byte of the higher 2 bytes in SDRAM
MCK	1	0	Clock input to SDRAM
MCKI	1	I	Clock input for data input from SDRAM

SDRAM specifications

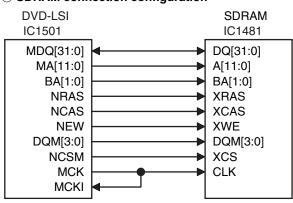
• Data bus width: 32 bit

• Operating frequency: 121.5 MHz

• CAS latency=3

- 8 word burst transfer
- Manual precharge
- CAS before RAS refresh (Auto refresh)

SDRAM connection configuration

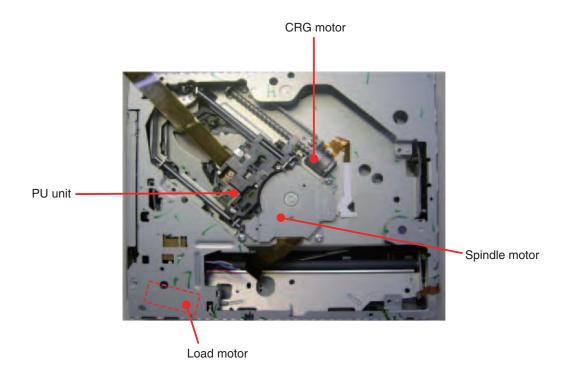


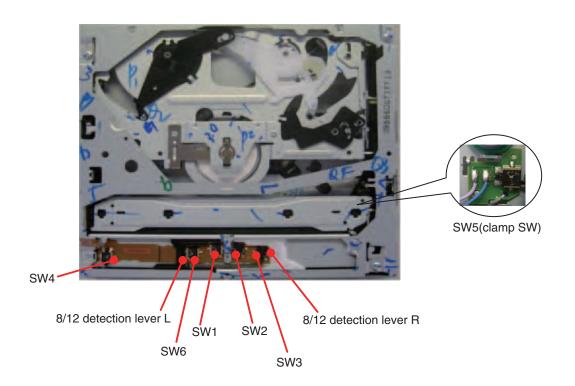
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2. MECHANISM DESCRIPTIONS

Construction





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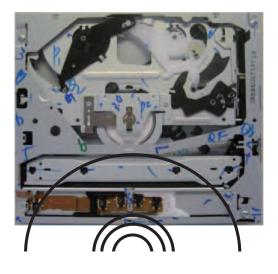
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2.1 Disc loading operation

- 1. When the disc is loaded, 8/12 detection lever R · L will slide, either SW1 or SW2 will be ON→OFF, and the loading motor will start.
- 2. In the case of a 12 cm disc, the disc is transported and SW3 becomes OFF and SW4 becomes ON, and the microcomputer judges as a 12 cm disc.



3. In the case of an 8 cm disc, even if the disc is transported, the SW3 OFF and SW4 ON state will not be realized, and the clamping motion will be taken. The microcomputer will judge as an 8 cm disc.





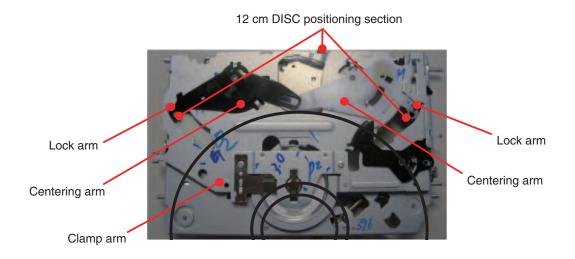
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2.2 Disc centering mechanism

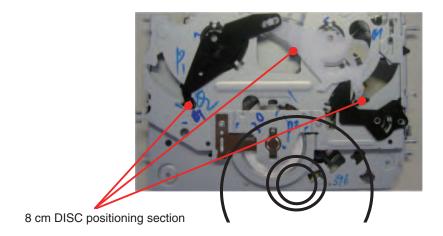
1. In the case of a 12 cm disc, the centering arm R · L will open by the disc being transported and both the lock arm R · L being pushed. Furthermore, the disc will be centered by the stopper of either the clamp arm or the centering arm R and stopped, and the clamping motion will be taken.



2. In the case of an 8 cm disc, if a disc is inserted being shifted to the left or the right, the disc will first hit the lock arm R or L.

As the lock arm R and L are coupled via the centering arm R and L and the lock will not be released unless both are pushed, the disc will be restricted by the fixed lock arm and centered.

The disc pushes out the detection arm while being centered, the disc stops at a position where the motion of the detection arm is completed, and the clamping motion will be taken.



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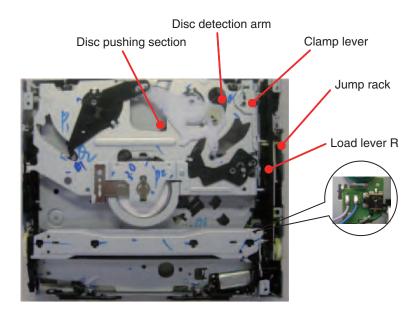
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2.3 Clamping operation

1. When a disc is loaded, the clamp lever will be driven by the disc detection arm being pushed by an 8 cm or a 12 cm disc. By engagement of the jump rack and the lever driving gear, the disc clamping motion will start.

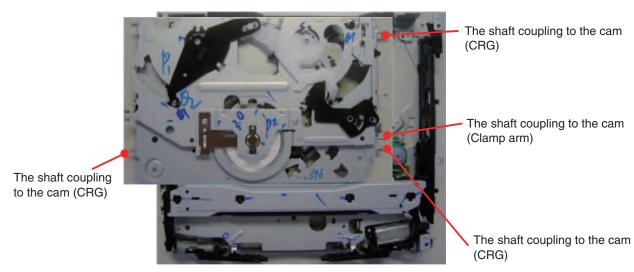


2. When the load lever R pushed by the jump rack moves to the front side of the mechanism, the roller shaft restricted by the cam of the load lever R will move downward.

And the roller shaft is also restricted by the cam of the cam ring.

The power of the roller shaft is transferred to the load lever L via the cam ring, and the load lever L will move to the front side of the mechanism.

The coupling of the load cam attached to each load lever, three shafts of the CRG chassis unit and the shaft of the clamp arm will be released, and the clamping motion will be completed at a position where the switch pushing section of the load lever R turns the clamp SW to ON.



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2.4 Ejection operation

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- 1. The loading motor reverse rotates, and the ejection motion will start.
- 2. In the case of a 12 cm disc, the ejection will be completed by OFF→ON→OFF of SW4.
- 3. In the case of an 8 cm disc, the ejection will be completed when both SW3 and SW6 become ON after either SW3 or SW6 is ON→OFF.

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3. DISASSEMBLY

How to hold the mechanism section (Fig 1)

- 1. Hold the main frame and the top frame.
- 2. As the mechanical strength of the front part of the top frame is not strong, do not hold this part.
- 3. Do not touch the switches provided on the top face of the mechanism section.
- 4. Be careful not to pull the flexible PCB on the side face.

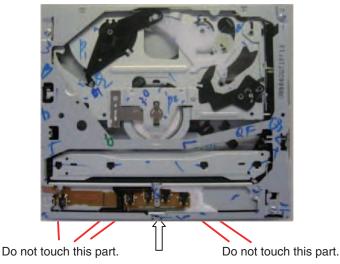


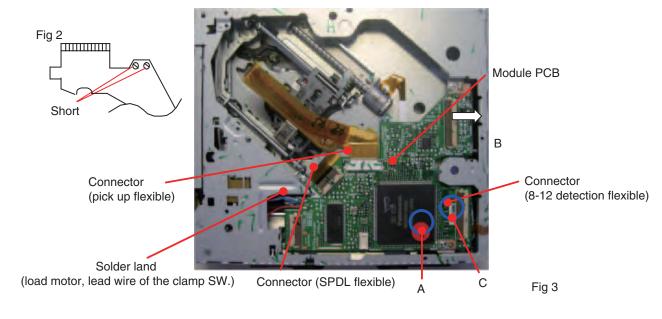
Fig 1

Do not touch this part.

How to remove the module PCB (Fig 2, Fig 3)

- 1. Put the mechanism section in locked state (disc load standby position).
- 2. Hold the mechanism module with its top face down.
- 3. Make the lands at 2 locations on the pick up flexible PCB short.
- 4. Disconnect the connectors of the pick up flexible PCB and the SPDL flexible PCB. (Be sure to disconnect the connectors as the flexible PCB will be damaged if the PCB is removed without removing the flexible PCB.)
- 5. Remove the solder joint of the lead wire of the load motor and the clamp SW.
- 6. Remove the two screws, and then remove the module PCB.

 (Lift up point A slightly and remove it toward B direction. Be careful as the point C is connected with a flexible PCB.)
- 7. Disconnect the connector of the 8-12 detection flexible PCB from the PCB.



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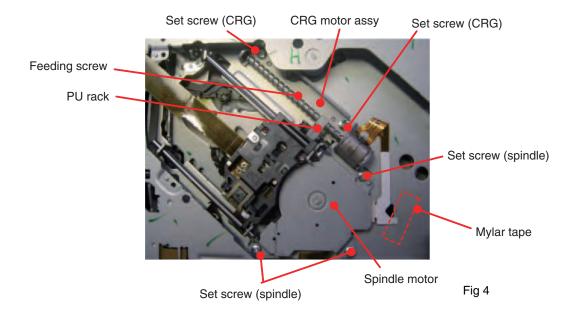
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How to remove the spindle motor (Fig 4)

- 1. Remove the module PCB according to the instructions in "How to remove the module PCB".
- 2. Remove the flexible PCB of the CRG motor from the connector of the spindle motor.
- 3. Remove the three motor mounting screws. When mounting or removing the motor, be careful not to deform the CRG chassis.

How to remove the CRG motor assy (Fig 4)

- 1. Remove the module PCB according to the instructions in "How to remove the module PCB".
- 2. Remove the Mylar tape.
- 3. Remove the flexible PCB of the CRG motor from the connector of the spindle motor.
- 4. Remove the two screws, and then remove the CRG motor assy.



How to remove the upper frame assy (Fig 5)

- 1. Remove the module PCB according to the instructions in "How to remove the module PCB".
- 2. Remove the vibration-proof spring (right front).
- 3. Remove the four screws, and then remove the upper frame assy.

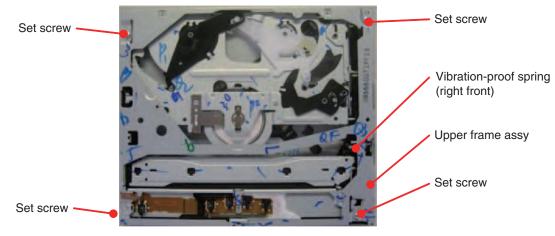


Fig 5

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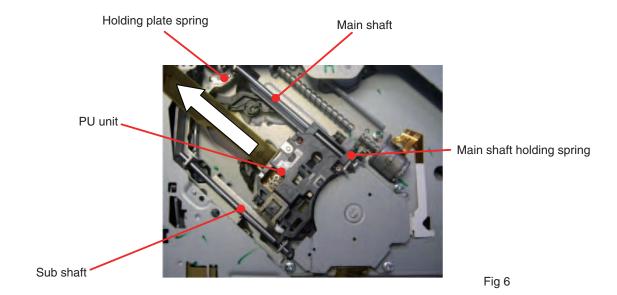
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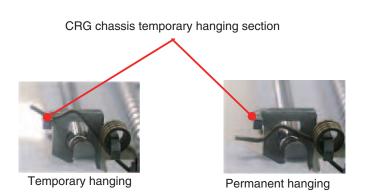
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● How to remove the PU unit (Fig 6)

- 1. Remove the module PCB according to the instructions in "How to remove the module PCB".
- 2. Hang the main shaft holding spring to the CRG chassis temporary hanger.
- 3. Remove the CRG motor assy according to the instructions in "How to remove the CRG motor assy".
- 4. Remove the holding plate spring of the main shaft.
- 5. While lifting up the tip of the pick up rack, slide the main shaft, and remove the PU unit.

(Note) When mounting the PU unit again, make sure to do the adjustments of the devices mounted thereon according to the descriptions of the service manual. Furthermore, make sure to hang the main shaft holding spring permanently.

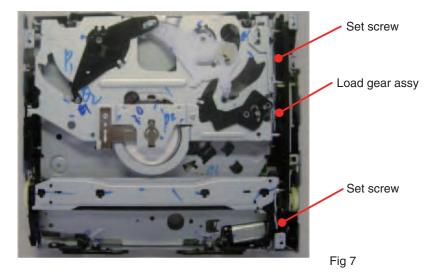




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How to remove the load gear assy (Fig 7)

- 1. Remove the module PCB according to the instructions in "How to remove the module PCB".
- 2. Remove the upper frame assy according to the instructions in "How to remove the upper frame assy".
- 3. Remove the two screws, and then remove the load gear assy.
- 4. Remove the jump rack and the rack attached spring.



How to make the empty clamp state (motor driven empty clamp) (Fig 8)

- 1. While driving the motor in the clamping direction, pull the clamp lever toward you.
- 2. Even if the clamp lever has pushed the jump rack putting it in the clamped state, continue pulling the clamp lever toward you lightly until it is stopped. It should be noted that the ejection will not work if the bar ring of the clamp lever is positioned at the center of the hook shape. (Fig 9)
- 3. When the clamping motion is finished, stop the motion before the convex shape of the jump rack touches the load lever R. (Fig 10)

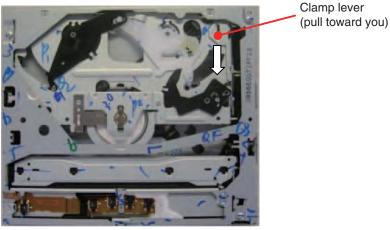


Fig 8

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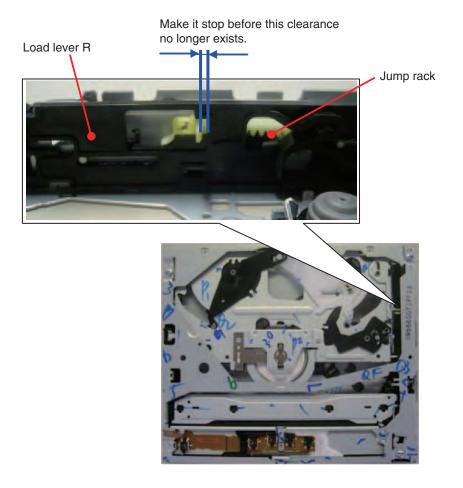
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Bar ring of the clamp lever

Clamp spring

Fig 9

Make sure that the bar ring of the clamp lever does not get inside the clamp spring.



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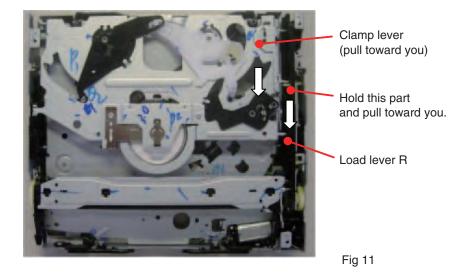
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Fig 10

28 CX-3212 3 = 4

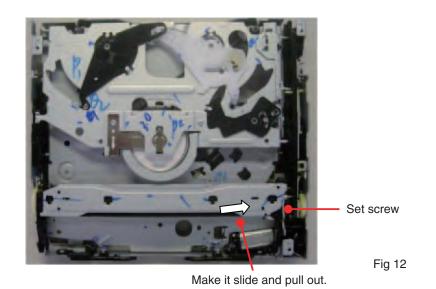
■ How to make the empty clamp state (manual empty clamp) (Fig 11)

- 1. Remove the module PCB according to the instructions in "How to remove the module PCB".
- 2. Remove the upper frame assy according to the instructions in "How to remove the upper frame assy".
- 3. Remove the load gear assy according to the description in "How to remove the load gear assy".
- 4. While pulling the clamp lever toward you, pull the slip stopper of the load lever R, and make it clamp.



How to remove the load motor assy (Fig 12)

- 1. Remove the module PCB according to the instructions in "How to remove the module PCB".
- 2. Remove the upper frame assy according to the instructions in "How to remove the upper frame assy".
- 3. Remove the load gear assy according to the description in "How to remove the load gear assy".
- 4. Make the empty clamp state according to the description in "How to make the empty clamp state (manual empty clamp)".
- 5. Remove the screw and then pull out the load motor assy from the side.



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■ How to remove the CRG assy (Fig 13)

- 1. Make the empty clamp state according to the description in "How to make the empty clamp state (motor driven empty clamp)".
- 2. Remove the module PCB according to the instructions in "How to remove the module PCB".
- 3. Remove the upper frame assy according to the instructions in "How to remove the upper frame assy".
- 4. Remove the three vibration-proof springs.
- 5. Remove the CRG assy by lifting it up until the shaft slips out of the damper.

How to remove the disc guide assy (Fig 13)

- 1. Make the empty clamp state according to the description in "How to make the empty clamp state (motor driven empty clamp)".
- 2. Remove the module PCB according to the instructions in "How to remove the module PCB".
- 3. Remove the upper frame ASSY according to the instructions in "How to remove the upper frame assy".
- 4. Remove the two screws, and then remove the disc guide by lifting it up and placing it at 45° position and further sliding it to the left.

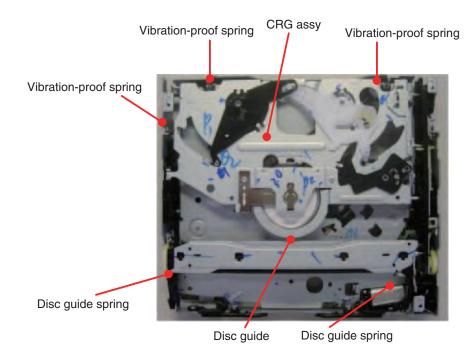


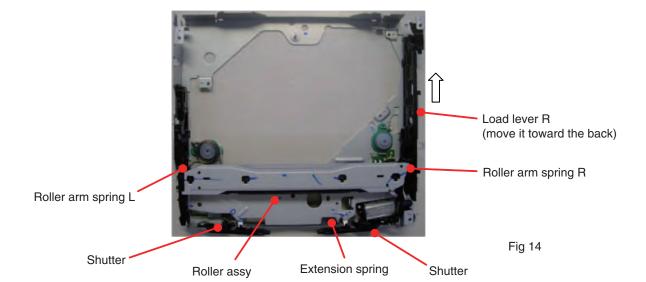
Fig 13

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■ How to remove the roller assy (Fig 14)

- 1. Remove the module PCB according to the instructions in "How to remove the module PCB".
- 2. Remove the upper frame assy according to the instructions in "How to remove the upper frame assy".
- 3. Remove the extension spring.
- 4. Remove the load gear assy according to the description in "How to remove the load gear assy".
- 5. Make the empty clamp state according to the description in "How to make the empty clamp state (manual empty clamp)".
- 6. Remove the disc guide assy according to the description in "How to remove the disc guide assy".
- 7. Remove the CRG assy according to the description 4 and 5 in "How to remove the CRG assy".
- 8. Push the slip stopper of load lever R toward the back, and move it until the end.
- 9. Remove the load motor assy according to the description in "How to remove the load motor assy".
- 10. Remove the roller arm spring R L.
 - As for the roller arm spring R, remove only the tip hanging on the load lever R.
- 11. Remove the extension spring, and then remove the roller assy by lifting it up to the highest position and sliding it toward the right.

(Note) Be careful not to deform the shutter when removing the roller assy.



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How to remove the damper (Fig 15)

- 1. Make the empty clamp state according to the description in "How to make the empty clamp state (manual empty clamp)".
- 2. Remove the module PCB according to the instructions in "How to remove the module PCB".
- 3. Remove the upper frame assy according to the instructions in "How to remove the upper frame assy".
- 4. Remove the three vibration-proof springs.
- 5. Remove the CRG assy according to the description 4 and 5 in "How to remove the CRG assy".
- 6.1 Release the clinch by holding the A section of the damper attached to the main frame using a pair of pliers and lifting it up toward B direction.
 - (As there will be a gap made at section C, remove the damper.)
- 6.2 Insert a screwdriver into section D, release the clinch by lifting up a metal plate on the other side, and remove the damper.
- 7.1 Remove the CRG motor assy according to the description 3 and 4 in "How to remove the CRG motor assy".
- 7.2 Remove the damper.

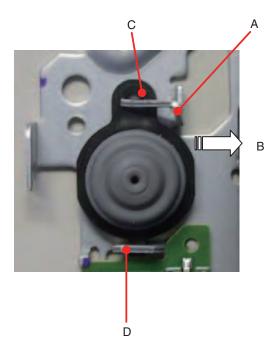


Fig 15

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